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THE UNIVERSITY OF  
ILLINOIS COLLEGE OF  
MEDICINE • 1960 • 1962

UNIVERSITY OF ILLINOIS BULLETIN

THE  
UNIVERSITY OF ILLINOIS  
COLLEGE OF MEDICINE  
CHICAGO, ILLINOIS

UNIVERSITY  
OF ILLINOIS  
BULLETIN

Volume 59,  
Number 23;  
October, 1961.

Published  
nine times  
each month by  
the University  
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Entered as  
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MEDICINE - 1960 - 1962

PUBLISHED BY THE UNIVERSITY OF ILLINOIS PRESS, CHICAGO, ILLINOIS

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PUBLISHED BY THE UNIVERSITY OF ILLINOIS, 1853 WEST POLK STREET, CHICAGO, ILLINOIS



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## CALENDAR

### 1961 — FALL QUARTER

September 25, Mon. . . . . First day of classes  
November 23, Thurs. . . . . Thanksgiving Day  
December 16, Sat. . . . . Quarter ends

### 1962 — WINTER QUARTER

December 26, Tues. . . Quarter begins for third-  
year and fourth-year students  
January 1, Mon. . . . . New Year's Day  
January 2, Tues. . . . . Quarter begins for first-  
year and second-year students  
March 17, Sat. . . . . Quarter ends

### 1962 — SPRING QUARTER

March 19, Mon. . . . . Quarter begins for third-  
year and fourth-year students  
March 26, Mon. . . . . Quarter begins for first-  
year and second-year students  
May 30, Wed. . . . . Memorial Day  
June 8, Fri. . . . . Commencement exercises

### 1962 — SUMMER QUARTER

June 18, Mon. . . . . First day of classes  
July 4, Wed. . . . . Independence Day  
September 3, Mon. . . . . Labor Day  
September 8, Sat. . . . . Quarter ends

# UNIVERSITY OF ILLINOIS

## BOARD OF TRUSTEES

### MEMBERS EX OFFICIO

Otto Kerner, Governor of Illinois, Springfield  
George T. Wilkins, Superintendent of Public Instruction,  
Springfield

### Term 1957-63

Earl M. Hughes, Hughes Farms, Route 1, Woodstock  
Wayne A. Johnston, 135 E. Eleventh Place, Chicago 5  
Timothy W. Swain, 912 Central National Bank Building,  
Peoria 2

### ELECTED MEMBERS

### Term 1959-65

Howard W. Clement, 38 S. Dearborn Street, Chicago 3  
Richard A. Harewood, 733 E. Seventy-fifth Street,  
Chicago 19  
Harold Pogue, 705 N. Oakland Avenue, Decatur

### Term 1961-67

Irving Dilliard, 505 E. Church Street, Collinsville  
Mrs. Frances B. Watkins, 5454 Cornell Avenue, Chicago 15  
Kenney E. Williamson, Sixth Floor, Lehmann Building,  
Peoria 2

### OFFICERS OF THE BOARD

Kenney E. Williamson, President, Peoria  
Anthony J. Janata, Secretary, Urbana  
Herbert O. Farber, Comptroller, Urbana  
Clarence W. Weldon, Treasurer, Chicago

### COMMITTEE on the CHICAGO DEPARTMENTS

Mrs. Frances B. Watkins (Chairman), Wayne A. Johnston,  
Harold Pogue

## ADMINISTRATIVE OFFICERS

DAVID DODDS HENRY, Ph.D., LL.D., HH.D., Litt.D., L.H.D., D.Sc.Ed., Ped.D.,  
President of the University

JOSEPH SHERIDAN BEGANDO, Ph.D., Vice-President in charge of the Chicago  
Professional Colleges

GRANVILLE ALLISON BENNETT, A.M., M.D., Dean of the College of Medicine

DONALD JOSEPH CASELEY, A.B., M.D., Associate Dean of the College of Medi-  
cine and Medical Director of the Research and Educational Hospitals

WILLIAM JOHNSON GROVE, M.S., M.D., Associate Dean of the College of Med-  
icine

GEORGE ROBERT MOON, A.M., Associate Dean of Admissions and Records for  
the Chicago Departments

JAMES ELMER OSBORN, B.S., Business Manager for the Chicago Departments

HARRY WISLER PEARCE, B.S., Superintendent of Buildings and Grounds for the  
Chicago Departments

WILMA TROXEL, A.M., Librarian in the Quine Library of Medical Sciences

MAURICE JACKSON GALBRAITH, M.S., Dean of Student Affairs

FRANKLIN CHARLES DALLA, B.S., Director of the Chicago Illini Union

MARVIN J. COLBERT, B.S., M.D., Director of Health Service for the Chicago  
Departments

GEORGE F. MCGREGOR, A.M., Associate Director of Nonacademic Personnel

## COMMITTEES OF THE COLLEGE OF MEDICINE, 1960-1961

### Executive Committee

G. A. BENNETT (Chairman), D. I. ABRAMSON, W. R. BEST, D. J. CASELEY,  
W. H. COLE, N. J. COTSONAS, H. F. DOWLING, J. B. FULLER, F. J. GERTY,  
EARLE GRAY, W. J. GROVE, R. A. HARVEY, F. K. HICK, A. C. IVY, G. G.  
JACKSON, H. A. KAMINETZKY, W. F. KELLOW (*ex officio*), C. A. KRAKOWER,  
P. C. KRONFELD, F. L. LEDERER, M. H. LEPPER, ELIZABETH A. MCGREW, W. F.  
MENGERT, G. E. MILLER (*ex officio*), M. M. MONTGOMERY, G. R. MOON (*ex  
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PREUCIL, R. D. RAY, S. R. REYNOLDS, N. B. ROBERG, I. M. ROSENTHAL,  
ADOLPH ROSTENBERG, MAX SAMTER, H. N. SANFORD, H. J. SHAUGHNESSY,  
T. R. SHERROD, F. H. SQUIRE, K. R. UNNA, BEATRICE D. WADE, W. V. WHITE-  
HORN, R. J. WINZLER, A. V. WOLF.

### Subcommittee of Executive Committee

G. A. BENNETT (Chairman), D. J. CASELEY, H. F. DOWLING, W. J. GROVE,  
R. A. HARVEY, C. A. KRAKOWER, S. R. REYNOLDS, R. J. WINZLER, A. V. WOLF.

## Standing Committees

The Dean is *ex officio* a member of all standing committees.

**Admissions.** G. A. BENNETT (Chairman), H. W. BAILEY, H. A. BLISS, GIBBON BUTLER, W. J. GROVE, W. F. KELLOW, ELIZABETH A. MCGREW, G. R. MOON (*ex officio*), P. E. NIELSON, M. V. NOVAK, A. M. OSTFELD, J. C. PLAGGE, R. J. RYAN, C. W. SANFORD (*ex officio*), C. M. SMITH, N. E. SMITH, W. V. WHITEHORN.

**Alumni and Postgraduate Affairs.** ARMAND LITTMAN (Chairman), ARTHUR BERNSTEIN, K. C. JOHNSTON, L. R. LIMARZI, C. C. MASON, J. H. SCHNEEWIND, H. L. WILDER.

**Internship.** I. M. ROSENTHAL (Chairman), M. J. GALBRAITH (*ex officio*), W. F. KELLOW, G. O. McDONALD, T. B. SCHWARTZ, G. A. WILLIAMS, W. S. WOOD.

**Instruction.** W. F. KELLOW (Chairman), J. A. CAMPBELL, W. H. COLE, H. F. DOWLING, L. A. FISHER (*ex officio*), J. B. FULLER, P. C. KRONFELD, W. F. MENGERT, G. E. MILLER (*ex officio*), HARRY MONSEN, T. C. MYERS, P. E. NIELSON, A. M. OSTFELD, R. W. PUMPER, R. D. RAY, H. N. SANFORD, C. M. SMITH, A. V. WOLF.

**Student Awards and Scholarships.** H. R. CATCHPOLE (Chairman), L. G. ABOOD, W. R. BEST, CARROLL L. BIRCH, M. J. GALBRAITH (*ex officio*), RUVEN GREENBERG, W. F. KELLOW, R. H. KREHBIEL.

**Student Discipline.** W. F. KELLOW (Chairman), M. J. GALBRAITH (*ex officio*), G. G. JACKSON, G. R. MOON (*ex officio*), W. V. WHITEHORN, Student Representative.

**Promotions (First and Second Years).** C. A. KRAKOWER (Chairman), H. C. BATSON, S. B. BINKLEY, M. J. COLBERT, M. J. GALBRAITH (*ex officio*), R. C. INGRAHAM, R. M. KARK, W. F. KELLOW, G. R. MOON (*ex officio*), M. V. NOVAK, S. R. REYNOLDS, T. R. SHERROD, E. M. WASSERMAN.

**Promotions (Third and Fourth Years).** ERIC OLDBERG (Chairman), S. B. BINKLEY, N. J. COTSONAS, F. A. DEPEYSTER, M. J. GALBRAITH (*ex officio*), W. J. GROVE, W. F. KELLOW, R. S. LEVINE, J. H. McCLURE, G. R. MOON (*ex officio*), I. M. ROSENTHAL, N. E. SMITH, B. J. SOBOROFF, F. E. TROBAUGH.

**Examinations.** H. C. BATSON (Chairman), L. J. LeBEAU and MAX SAMTER (Vice-Chairmen), L. A. FISHER (*ex officio*), W. J. GROVE, H. A. HAYASHI, H. A. KAMINETZKY, W. F. KELLOW, G. A. KIEN, A. G. LaVELLE, G. E. MILLER (*ex officio*), AKIRA OMACHI, A. K. ROSENWALD, N. E. SMITH, M. A. SWERDLOW.

**College Building and Space Plans.** W. F. KELLOW (Chairman), D. J. CASELEY, W. H. COLE, H. F. DOWLING, C. A. KRAKOWER, J. P. MARBARGER, W. F. MENGERT, M. V. NOVAK, R. J. WINZLER.

**College of Medicine Lecture.** H. R. CATCHPOLE (Chairman), N. R. ALPERT, O. T. BAILEY, H. A. BLISS, R. M. KARK, J. H. KIEFER.

**Faculty Fellowships, Awards, and Scholarships.** O. T. BAILEY, (Chairman), E. J. BEATTIE, H. F. DOWLING, A. V. WOLF.

**Faculty-Student Relations.** T. R. SHERROD (Chairman), N. R. ALPERT, R. A. CLASEN, M. J. GALBRAITH (*ex officio*), PAUL HELLER, J. G. LOESCH, N. R. ROBERG, W. V. WHITEHORN.

**Correlation Conference.** J. B. FULLER (Chairman), C. L. PIRANI (Vice-Chairman, First and Second Years), W. R. BEST (Vice-Chairman, Third and Fourth Years), M. I. GIBBEL, G. G. JACKSON, HENRY JEFFAY, A. V. KROEGER, J. J. MUENSTER, VIRGINIA PATTERSON, R. D. RAY, S. R. REYNOLDS, K. R. UNNA, W. V. WHITEHORN.

**Medical Education for National Defense.** M. H. LEPPER (Chairman), N. R. ALPERT (Coordinator), J. P. MARBARGER, J. S. SCHNEEWIND, L. R. SIBAL, W. S. WOOD.

**Davis Lectureship.** J. H. KIEFER (Chairman), CARROLL L. BIRCH, H. R. CATCHPOLE, F. H. FALLS, P. H. HOLINGER, T. S. JONES, L. S. KING, W. E. POST.

**Gehrmann Lectureship.** J. E. KEMPF (Chairman), H. R. CATCHPOLE, G. G. JACKSON, H. J. SHAUGHNESSY.

**Social Events.** C. A. JOHNSON (Chairman), CARROLL L. BIRCH, M. J. GALBRAITH (*ex officio*), MARY HEERMANS, E. N. IRONS, F. L. LEDERER, F. L. McMILLAN, MAX SAMTER, NATALIE SELTZER, P. H. SIMER, E. E. VICHER.

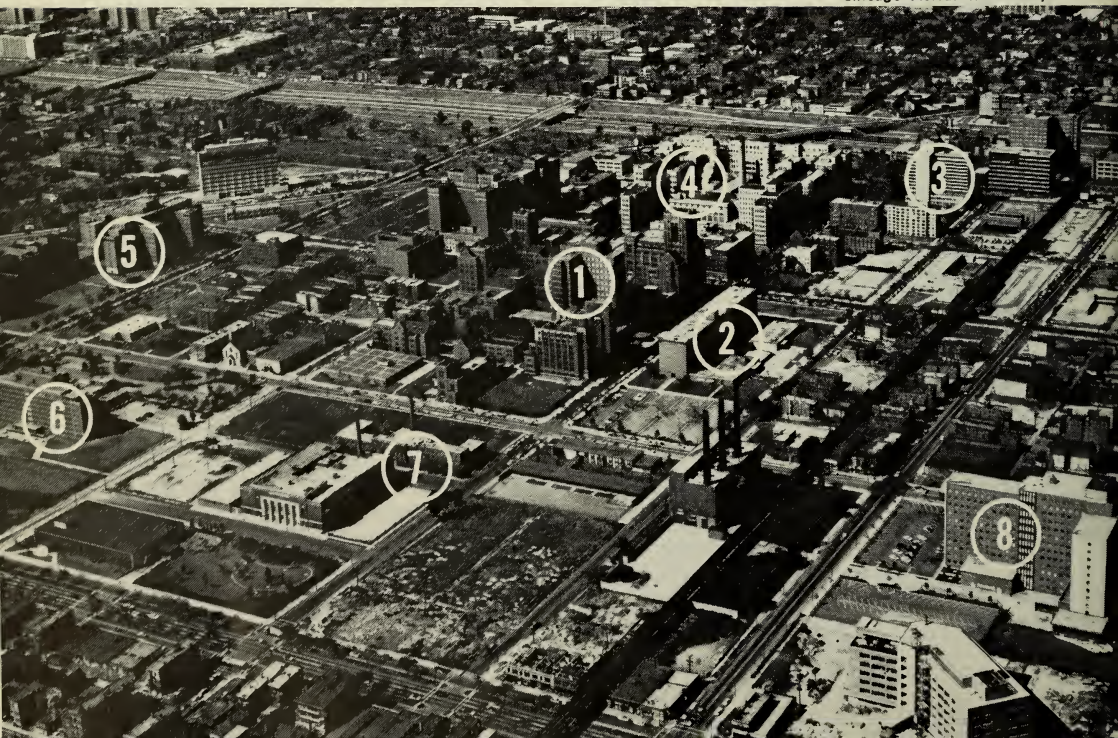




1. Colleges of Medicine, Dentistry, and Nursing,  
and Research and Educational Hospitals
2. College of Pharmacy
3. Presbyterian-St. Luke's Hospital
4. Cook County Hospital
5. West Side Veterans Administration Hospital
6. Chicago-State Tuberculosis Sanitarium
7. State Department of Public Health Laboratories
8. Illinois State Psychiatric Institute

**UNIVERSITY OF ILLINOIS MEDICAL CENTER — CHICAGO, ILLINOIS**

Chicago Aerial Industries, Inc.



## **LOCATION, HISTORY, AND ADMINISTRATION**

### **Location**

The College of Medicine of the University of Illinois is located in the Medical Center District on the west side of Chicago. The work of the College, together with the related work in the Colleges of Dentistry, Pharmacy, Nursing, and the Graduate College, is centralized in the laboratory building facing on Polk, Wood, and Wolcott Streets. The campus, which is about two miles west of the Loop, or main business district of Chicago, can be reached conveniently by elevated train, bus, or automobile.

The University buildings contain the administrative offices of the College, the library, lecture rooms, classrooms and large laboratories for classwork, numerous small laboratories for individual research, an autopsy amphitheater, and the clinics and hospitals. The last include the University of Illinois Research and Educational Hospitals and the Neuropsychiatric Institute. The Illinois Eye and Ear Infirmary is located near the campus. This infirmary is operated jointly by the University and the State Department of Public Welfare. Close to the college campus are the Presbyterian-St. Luke's Hospital, Cook County Hospital, Chicago-State Tuberculosis Sanitarium, West Side Veterans Administration Hospital, and the Illinois State Psychiatric Institute, all of which are used for student teaching.

### **History**

The College of Medicine was originally an independent institution. It opened October 14, 1881, as the College of Physicians and Surgeons of Chicago. It became affiliated with the University of Illinois under a lease in 1897, and in 1900 its name was changed to the College of Medicine of the University of Illinois. Not until 1913, however, did it become an integral part of the University. During most of its early history it was located north of Cook County Hospital in the area now forming the Louis Pasteur Park. In 1931 the College was moved to its present quarters in the west unit of the Dentistry-Medicine-Pharmacy Building. In 1941 the Presbyterian Hospital (now merged with St. Luke's Hospital) became affiliated with the University and members of the staff of Rush Medical College were incorporated into the faculty of the College of Medicine.

Graduate work has been offered in the Chicago departments since 1915. The present work of the Graduate College is described in detail in a separate catalog.

### **Administration**

The Chicago Professional Colleges include the Colleges of Medicine, Dentistry, Pharmacy, and Nursing, each of which is administered in its internal affairs by its dean and its faculty. The Vice-President in charge of the Chicago Professional Colleges, under the direction of the President, serves as the chief administrative officer. The Chicago Professional Colleges have a separate Senate to deal with legislative matters of educational policy. Separate Senates are constituted for the Urbana-Champaign campus and for the Chicago Undergraduate Division of the University. A Senate Coordinating Council is organized to consider all matters acted upon by any of the three Senates and, if there is a need, to refer any action of one Senate to the other two Senates for final resolution.

## **HOSPITALS AND CLINICS**

### **Research and Educational Hospitals**

The Research and Educational Hospitals, planned and built for teaching and investigation, are four separate buildings, either contiguous or connected by tunnels. The units consist of (1) the original Research and Educational Hospital, known as the General Hospital, containing most of the outpatient clinics, several patient units including obstetrics and gynecology, the Recovery Room, and part of the operating suite; (2) the Illinois Surgical Institute for Children (Department of Orthopaedic Surgery), with an entire orthopaedic service including four full floors plus physical therapy and related services; (3) the Neuropsychiatric Institute, with facilities for the Department of Psychiatry and for the Department of Neurology and Neurological Surgery; and (4) the hospital addition, a fourteen-story building housing most of the central hospital services, administration offices, dietary service, radiology, some of the clinical laboratories, and eight floors of patient units. The total hospital bed capacity is 620 beds and 50 bassinets.

Clinical services of the Research and Educational Hospitals are supervised by department heads and attending physicians and surgeons of the College of Medicine faculty. A substantial number of members of the



clinical faculty devote full time to the College of Medicine and the hospitals.

**Blood Bank.** Recently relocated in enlarged quarters in a remodeled area of the General Hospital building, the Blood Bank serves the needs for whole blood, plasma, and other blood products for all departments.

**Central Laboratories.** Laboratory facilities of the Research and Educational Hospitals are consolidated in the Central Laboratories, with sections devoted to chemistry, serology, microbiology, hematology, and endocrine assay.

**Emergency Service.** The most modern facilities for emergency care are incorporated in the Emergency Service. It is on the ground floor of the hospital addition and is readily accessible both from the ambulance drive and from the central hospital elevators.

The service includes four examining rooms, two minor surgeries, complete laboratory and X-ray facilities, two overnight observation wards, and utility and office space.

Many of the cases handled by the service are brought in by the city police and fire departments. It offers both an interesting and diversified experience for the house staff and is a hospital admission source of cases needing urgent attention.

**Radiology.** The radiology department contains a diagnostic section,

University of Illinois Research and Educational Hospitals



which serves both outpatients and hospital patients, and a therapy section with 50-140 kv, 200 kv, and 400 kv installations. A large amount of radium is available. The department is responsible for the isotope program in the hospital. A 23 million volt betatron is housed in a separate building, accessible through the underground tunnel system.

**Recovery Room.** The latest concepts of intensive postoperative therapy are embodied in the Recovery Room. Personnel highly trained in postoperative care are in constant attendance. On occasion, patients from the medical service are moved to the Recovery Room when there is a demonstrated need for intensive care.

**Special Laboratories.** The electrocardiography laboratories are operated by the Department of Medicine and the electroencephalography facility by the Department of Neurology and Neurological Surgery. Other special laboratories are partly research in nature, with their services available for patient care on request.

## Clinics

The clinics (outpatient service), in which the teaching program of the College of Medicine is carried out in conjunction with the care of ambulatory patients, are located in the Research and Educational Hospitals. These clinics include general medicine and the medical specialties (allergy, arthritis, cardiology, metabolic diseases, cirrhosis, infectious disease, and consultation clinics). There are also the surgery clinic and the surgical specialties clinics (cardiovascular and peripheral vascular surgery, plastic, oral surgery, and proctology), urology, and the tumor clinics. Clinics held by other departments are the prenatal and gynecology, dermatology, psychiatry, neurology, orthopaedic surgery, ophthalmology, and otolaryngology. In addition to these clinics there is the Center for Handicapped Children, an interdepartmental activity, and the outpatient division of both physical therapy and occupational therapy services.

An admitting clinic is operated under the supervision of the Department of Medicine. Patients are screened here in advance of assignment to a "home" clinic for definitive care.

Patient visits to the clinics generally average about 200,000 each year.

Medical services in the clinics are provided principally by physicians at attending, associate, or assistant attending levels. Residents and interns, to a lesser extent, work in the clinics. During their clerkships students are assigned to the various clinics as a part of their learning experience.

## **Other Hospitals**

**Presbyterian-St. Luke's Hospital.** This is a general hospital of approximately 900 beds and a large dispensary. The hospital is affiliated with the University of Illinois and is used extensively for the instruction of medical students in their junior and senior years. The members of the medical staff of the hospital hold appointments to the faculty of the College of Medicine.

**Cook County Hospital.** A general hospital having 3,400 beds is located directly across the street from the College of Medicine and is used extensively in clerkship teaching.

**Chicago-State Tuberculosis Sanitarium.** This hospital for treatment of patients with tuberculosis is located in close geographic proximity to the College of Medicine. Some members of its staff are members of the faculty of the College of Medicine.

**Illinois State Psychiatric Institute.** The Illinois State Psychiatric Institute, operated by the State Department of Public Welfare, is available to medical schools located in Chicago for undergraduate and postgraduate instruction and for research.

**West Side Veterans Administration Hospital.** This Veterans Administration Hospital is located two blocks west of the College of Medicine. Its training program is under the supervision of a Deans' Committee consisting of the deans of the University of Illinois College of Medicine, the Stritch School of Medicine of Loyola University, and the Chicago Medical School, and two members of the faculty of the University of Illinois College of Medicine. Each member of the professional staff of the hospital holds an appointment in one of the three medical schools in the area and participates in the instructional program of undergraduate students and residents.

**Hines Veterans Administration Hospital.** This hospital is located twelve miles west of the Medical Center, and its training program is under the supervision of a Deans' Committee consisting of the deans of the University of Illinois College of Medicine, the Stritch School of Medicine of Loyola University, the Chicago Medical School, and Northwestern University Medical School. The hospital facilities are used for certain instructional programs.

**Illinois Eye and Ear Infirmary.** The infirmary, operated jointly by the State Department of Public Welfare and the University, is located outside the Medical Center District. It has 120 beds and is staffed by members of the College of Medicine faculty. It is used almost exclusively

for resident and postgraduate training in ophthalmology and otolaryngology.

**Division of Services for Crippled Children.** This is an administrative unit of the Chicago Professional Colleges which operates a statewide program of medical, surgical, and other habilitative services for children who are afflicted with a wide variety of handicapping conditions. It is Illinois' official crippled children's medical care agency. Facilities for diagnosis, hospitalization, and follow-up care are provided, utilizing various resources throughout the state, including the Research and Educational Hospitals. This Division conducts 260 general and special clinics in 40 communities staffed by pediatric, orthopaedic, speech and hearing, social service, and public health nursing consultants. Teaching and research relationships are maintained in the program of the Center for Handicapped Children. Liaison is maintained with the Children's Bureau of the Department of Health, Education, and Welfare as well as with the state of Illinois official public agencies related to health, welfare, instruction, and vocational rehabilitation.

## **LIBRARY**

The library contains a comprehensive collection of standard and modern works on medical, dental, nursing, and pharmaceutical subjects, with over 1,200 current periodicals and more than 128,000 books on the shelves at present. It is used by professional men throughout the Chicago area, and its service to the University staff and student body is supplemented by loan arrangements with other libraries.

## **MUSEUMS**

The College has two museums: the Anatomy Museum, including gross anatomy, histology, embryology, and neurology; and the Pathology Museum, including gross specimens for purposes of instruction of undergraduate and postgraduate students of medicine.

## **RECREATIONAL FACILITIES**

The social and recreational center for students, alumni, and faculty members is the Chicago Illini Union Building, 715 South Wood Street. Its facilities include a cafeteria, grill, soda fountain, browsing room, music room, gymnasium, meeting rooms, and game rooms. Intramural



sports under a trained director are encouraged, and facilities and equipment are available for indoor and outdoor sports. Through special arrangements, the swimming pool of the nearby Y.M.C.A. is available to students.

## HOUSING

Students and staff members of the University may be housed in either the Student Residence Hall or the Staff Apartment Building. Both facilities offer convenient and comfortable living quarters at reasonable rates.

The facilities of the Student Residence Hall include a modern food service kitchen, cafeteria, and coffee bar where meals and snacks are served daily. The building accommodates 412 persons in 196 double, 13 single, and seven counselor rooms. Each floor is equipped with a central shower and washroom. Other conveniences provided include a

One of Two Reading Rooms in the Quine Library of Medical Sciences



laundry room, pressing rooms, a recreation room, a lounge-television room, and two automatic elevators.

Cost for accommodations in the Student Residence Hall covers room and board, which includes twenty meals a week. This cost also includes the services of housemen for general maintenance work and maids who make beds and clean rooms.

A staff of seven counselors supervise the social-recreational program, living and study conditions, and also aid in the personal problems of the students. A student government promotes and maintains an effective program of self-government.

Assignments to the Student Residence Hall are based upon established occupancy and date of application. The contracted period is for the entire academic year. Payments may be made quarterly in advance.

## **REQUIREMENTS FOR ADMISSION**

### **General Regulation and Directions**

Applications for admission to the College of Medicine should be addressed to the Office of Admissions and Records, 1853 West Polk Street,

Student Residence Hall





Chicago 12. Official credentials, covering all collegiate and secondary school work performed by the applicants, must be sent directly from each institution attended. Since space and facility limitations and educational requirements make it necessary to limit class size, applicants should have their credentials mailed as early as possible. Applications are received between July 1 and December 31 in the year prior to enrollment. New classes begin work in the fall, usually late in September.

**Academic Requirements.** The course requirements as stated below must be met in full before admission will be granted. Requirements are to be completed by July 1 of the year in which enrollment is desired. The Committee on Admissions may waive full compliance with this rule or any course requirement, if the applicant possesses unusually high qualifications. The College is concerned with three elements in the program of preparation for medical school: specific preparation in certain sciences on which the medical curriculum largely rests; breadth of education, particularly in nonscience areas; and depth of education in a particular field. The minimum science requirements which are listed are intended to provide the specific preparation upon which the medical curriculum is based. The requirements in English, foreign language, humanities, and social science are intended to supply breadth to the educational program. In providing for depth, the College makes no stipulation as to field, and work in the social sciences and humanities is approved equally with work in biological and physical sciences. However, the College does recommend that the advanced courses which are taken neither duplicate nor anticipate the courses which will be studied as a part of the medical curriculum.

Each applicant for admission to the College of Medicine, in addition to fulfillment of the general regulations and directions stated above, must have at least ninety-four semester hours of credit from a recognized college or university, exclusive of hygiene, military science, and physical education. The ninety-four semester hours must be distributed as follows:

	HOURS
Chemistry (including, in addition to introductory courses, four hours of organic chemistry and three hours of quantitative analysis) . . . . .	14
Physics (including the study of nuclear physics and laboratory work in mechanics, heat, sound, light, and electricity) . . . . .	8
Biology (including laboratory courses in general zoology and in embryology and a course in either comparative anatomy or vertebrate zoology) . . . . .	10

English (composition and rhetoric).....	6
Foreign Language.....	6
This requirement is waived if the student has completed four years of one language in high school or completes the last course of a two-year college language sequence. Nonscience courses must replace the language in such a case.	
Social science and humanities (at least three hours from each area)....	16
The following are considered social sciences: anthropology, economics, geography, history, political science, psychology, sociology. Humanities include literature (American, English, foreign), advanced composition, philosophy, and the fine arts.	
Advanced hours (not included in foregoing) in one subject-matter area from courses designed primarily for junior and senior students.....	6
Electives (including at least four hours nonscience).....	28
<i>Total</i> .....	<u>94</u>

The College of Liberal Arts and Sciences on the Urbana campus accepts a total of thirty-two hours of credit from the first year at the University's College of Medicine to enable the student to complete the requirements for a bachelor's degree as well as a medical degree in seven rather than the usual eight years. This program requires that (1) the student be in good standing in the College of Medicine; (2) work taken at the College of Medicine does not duplicate work taken in premedical courses; (3) the student complete the third or last year of premedical study, consisting of at least thirty hours of credit, on the Urbana campus; and (4) the student meets all requirements for graduation from the College of Liberal Arts and Sciences.

The following are the College of Medicine courses accepted by the College of Liberal Arts and Sciences and the majors to which they apply:

1. Biochemistry 301, 302, and 303 consisting of 66 hours in lecture and 88 hours in laboratory, to be applied to a chemistry major or for elective credit at the upper-division level for a total of six semester hours.
2. Physiology 301, 302, and 303 consisting of 90 hours in lecture and 149 hours in laboratory and conference, to be applied to a physiology and zoology major or for elective credit at the upper-division level for a total of ten semester hours.
3. Histology, consisting of 64 hours in lecture and 160 hours in laboratory to be applied to a zoology major or as elective credit at the upper-division level for a total of eight semester hours.
4. Gross Anatomy, consisting of 64 hours in lecture and 160 hours in

laboratory, to be applied to a zoology major or for elective credit at the upper-division level for a total of eight semester hours.

These requirements became effective November 14, 1956.

**Grade Requirement.** No applicant whose grade-point average is below 3.5 or its equivalent as determined by the University of Illinois for institutions using a different grading system,<sup>1</sup> may be considered for admission to the College. Grade-point average is computed by using the grades earned in the required courses. In instances in which the hours of credit earned in areas other than biology, chemistry, physics, English, and foreign language amount to more than fifty hours (including acceptable graduate courses exclusive of seminar and research) the grade-point average is calculated on the most recent fifty hours of work in the other areas plus the grades earned in the required courses in biology, chemistry, physics, English and foreign language.

**The Medical College Admission Test.** All candidates are required to take the Medical College Admission Test recommended and approved by the Association of American Medical Colleges.

**Requirements in Scholarship.** For eligible candidates, the Committee on Admissions will take account of the quality of work in the various areas, the breadth of training, and the nature of the advanced courses submitted for admission.

**Selection of Applicants.** Selection is made by the Committee on Admissions. No student is considered who is on scholastic probation or who has been dropped for poor scholarship from the last institution attended prior to seeking admission to the University of Illinois. Applicants who meet in full the course and grade average requirements are considered by the Committee. In selecting applicants, the Committee takes into consideration such factors as scholastic records, the schools and colleges previously attended, letters of recommendation, especially from teachers in the laboratory sciences, health records, aptitude tests, and such special examinations and other qualifications as may be determined by the Committee. All students are considered on the basis of individual qualifications without regard to race, color, creed, or national origin. A personal interview with a member or representative of

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<sup>1</sup> This rule is interpreted according to the number of passing grades. In a system of four passing grades, A, B, C, and D, the literal grades are translated into figures as follows: A = 5; B = 4; C = 3; D = 2; E (Failure) = 1. Where there are more or fewer than four passing grades, computation is adjusted to make the same level of accomplishment apply. The individual grades are multiplied by the respective number of semester hours which each represents, and the sum of these products is divided by the total number of semester hours taken. In the case of repeated courses, both grades earned are counted in computing the average.

the Committee may be required. Invitations to register are sent to approved applicants.

### **Special Requirements**

**Preference to Illinois Residents.** In considering applications for admission to the College of Medicine, the Committee on Admissions gives preference to candidates who are residents of Illinois. Nonresidents who present strong scholastic records may be accepted in numbers up to 10 per cent of any incoming class. Places in the first-year class to be filled by residents of Illinois are assigned to applicants from Cook County and to applicants from outside Cook County in the proportion which each area bears to the total population of the state according to the latest federal census, provided that if at any time the places available for either area are not filled, the remaining places may be assigned to applicants from the other area. On this basis at the present time, the places in the first-year class assigned to Illinois residents are distributed between applicants from Cook County and applicants from counties other than Cook in approximately equal numbers.

**Admission with Advanced Standing.** It is possible to admit a limited number of transfer students to the third-year class in the College of Medicine. In considering applications, the Committee on Admissions gives preference to the candidates who present the strongest scholastic records. Except in unusual cases, no student who is on probation or who has been dropped for any reason from a medical school is considered for admission.

**Physical Examination and the Health Service.** Each applicant who is tentatively accepted must have a physical examination by a physician on the staff of the University Health Service on this campus. A chest X-ray is also taken at this time.

It is strongly urged that each applicant, after acceptance, visit his physician and dentist in order to attend to such items as dental repairs and fitting for glasses. After school has begun, the student finds it difficult to have these essential things carried out without loss of time from classes. It is also required that each student have a smallpox vaccination and immunizations for typhoid fever, tetanus, poliomyelitis, and diphtheria within a five-year period prior to registration, and his physician must certify the dates on which these procedures were performed.

A tuberculin test is performed on all medical students during the first year of medical school, and subsequent tuberculin tests are recom-

mended if indicated. All students are urged to have annual chest X-rays during their years in medical school, and a chest X-ray is required before graduation.

**Deposits.** Each applicant who is assigned a place in any class in the College of Medicine is required to make a deposit of \$60.00 by January 15 or within two weeks of the date of notification, if notified after that date that he will be admitted. This deposit is applied on fees assessed against him at the time of registration. Failure to pay this deposit within the specified time subjects the applicant to forfeiture of his place. Twenty dollars of the deposit is returned if the applicant notifies the Office of Admissions and Records, at least thirty days before the time for registration, that he will not be able to enter. The Dean of Admissions and Records is authorized to make refunds after that time when, in his judgment, the circumstances so justify.

**Renewing Applications.** An applicant who has been accepted for admission but fails to enroll, and who wishes to enter in a subsequent year, must reapply for admission and must meet all the requirements in force at the time of the new application.

## REQUIREMENTS FOR GRADUATION

A candidate for a degree in the College of Medicine must meet the following general requirements: (1) show evidence of good moral character, (2) pay all indebtedness to the University, (3) obtain passing grades in all courses of the required curriculum, and (4) have grades averaging "C" in the total hours taken in the College and counted toward the degree.<sup>1</sup>

### Degrees

In addition to the general requirements for graduation, the special requirements for each degree in the College of Medicine are as follows:

**Doctor of Medicine.** Awarded to students who have completed four years in attendance at an approved medical school, of which at least the last year must have been at the University of Illinois, and who have completed the prescribed curriculum and passed the required examinations.

**Bachelor of Science in Occupational Therapy.** Awarded on completion of a ten-semester curriculum, six semesters of which are taken

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<sup>1</sup> Where it is necessary to translate percentages into literal grades, the following values are used: A, 92 to 100 per cent; B, 85 to 91 per cent; C, 75 to 84 per cent; D, 70 to 74 per cent; E, below 70 per cent, failure.



on the Urbana campus and an equivalent of four on the Chicago campus and in affiliated hospitals. A minimum total of 180 quarter hours (120 semester hours) is required for graduation.

### Honors

A student who complies with the requirements for graduation, and who attains in all work presented for the degree the average grade specified below, may be recommended by the University Senate for the honors stated: for an average grade of not less than 4.35, graduation with honors; for an average grade of not less than 4.75, graduation with high honors. The honors awarded are noted on the diploma and in the Commencement Program.

### SPECIAL COURSES FOR PHYSICIANS

The College of Medicine offers a number of special advanced courses which are open to graduates of approved medical schools. The fee for each full-time course is \$50.00 a month or \$150.00 a quarter, plus laboratory and clinic fees. Part-time postgraduate students in short courses pay \$25.00 a day for nonlaboratory courses, \$35.00 a day for laboratory courses. These courses are not accepted by the Graduate College for advanced degrees, and no grades are given, but the University keeps a record of the registrations and of the time spent by each registrant. Descriptions of the courses appear in a special postgraduate section of this catalog.

### FEES AND EXPENSES

All fees are payable in full when the student registers. The Board of Trustees of the University reserves the right to change the fees at any time through publication in the annual announcements.

A schedule of fees on an annual basis for regular full-time students in the College of Medicine is listed below. Fees are payable quarterly at the time of registration.

	FIRST YEAR		SECOND YEAR		THIRD YEAR		FOURTH YEAR	
	<i>Ill.</i>	<i>Non-Ill.</i>	<i>Ill.</i>	<i>Non-Ill.</i>	<i>Ill.</i>	<i>Non-Ill.</i>	<i>Ill.</i>	<i>Non-Ill.</i>
Tuition Fee. . . . .	\$171.00	\$522.00	\$171.00	\$522.00	\$171.00	\$522.00	\$228.00	\$696.00
Building and Laboratory Service Fee. . . . .	246.00	345.00	246.00	345.00	246.00	345.00	328.00	460.00
Union Building Service Charge. . .	15.00	15.00	15.00	15.00	15.00	15.00	20.00	20.00
Hospital-Medical- Surgical Insur- ance Fee	18.00	18.00	18.00	18.00	18.00	18.00	24.00	24.00
<i>Total. . . . .</i>	<u>\$450.00</u>	<u>\$900.00</u>	<u>\$450.00</u>	<u>\$900.00</u>	<u>\$450.00</u>	<u>\$900.00</u>	<u>\$600.00</u>	<u>\$1200.00</u>



**Late Registration Fee.** Former students who register after the regular registration days in any quarter pay a late registration fee of \$5.00.

**Special Examination Fee.** For any special examination to remove a failure, the fee is \$10.00.

**Study-List Change Fee.** A fee of \$1.00 is charged for every study-list change slip.

**Transcript Fee.** Each student who has paid all his University fees is entitled to receive without charge one transcript of his record. For each additional transcript the fee is \$1.00.

**Fees for Part-Time Students.** Residents of Illinois registered for partial programs of two hundred clock hours or less in a quarter in the College of Medicine pay tuition fees at the rate of \$5.00 and building and service fees at the rate of \$5.00 for twenty-five clock hours or fraction thereof; non-Illinois students pay tuition fees at the rate of \$18.00 and building and service fees at the rate of \$18.00 for twenty-five clock hours or less. Undergraduate students taking more than two hundred clock hours in a quarter pay the full tuition and building service fees.

**Service Charge for Deferred Fees.** In cases of necessity, students may arrange for deferment of fees by calling at the Business Office. A service charge of 10 per cent of the amount of fees deferred, but not to exceed \$2.00 a quarter, is charged for the privilege of deferring fees, and this charge must be paid on the day of registration. If deferred fees are paid in full within ten days after registration, the service charge is refunded except that a minimum service charge of \$1.00 is retained by the University in all cases. The service charge, not less than one-third of the current quarter's fees, and all fees and charges from previous terms must be paid on the day of registration. Failure to make payment of fees within the time limits cancels at once the privilege of attending classes. Registration is not completed until fees are paid in full, and no credit is recorded for classwork completed unless all fees and other charges have been paid in full. Deferred payment of fees delays the completion of registration but extends the privilege of attending classes pending payment of fees in full as described above.

**Refunds.** If a student withdraws within ten days after the beginning of instruction, his total fees are refunded. After ten days and before the expiration of half the term, a refund of one-half his total fees is made. After the expiration of half the term, no part of the fees is refunded.

## Expenses

From \$90.00 to \$125.00 a month may be regarded as adequate for the ordinary living expenses of a student in Chicago, exclusive of books, clothing, railroad fare, and miscellaneous needs. The expense for books varies between \$50.00 and \$100.00 a year. Board and room in the Student Residence Hall is \$860.00 for nine months, two students in a room. Each student is required to provide himself with a satisfactory microscope, a haemocytometer, and an ophthalmoscope. Members of the faculty check the condition of the microscopes upon request. Microscopes may be procured on a rental basis.

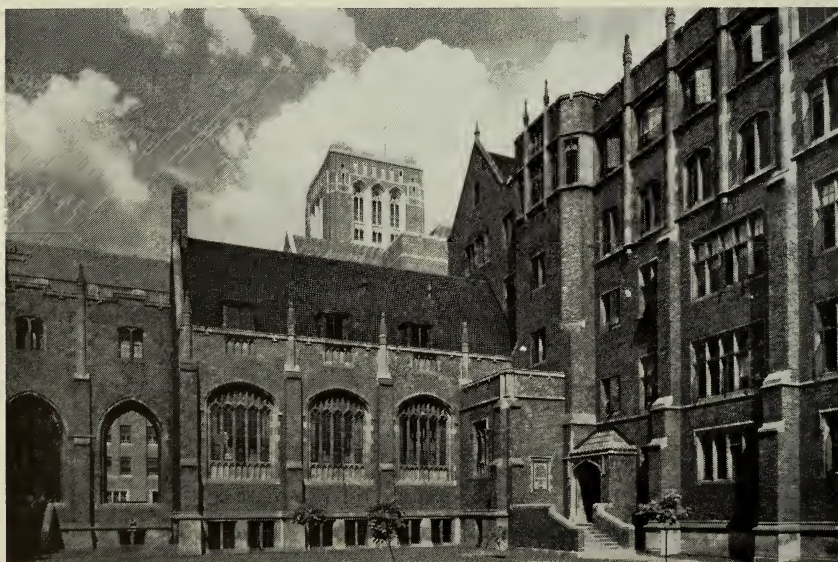
## SCHOLARSHIPS, PRIZES, AND LOAN FUNDS

### Scholarships for Medical Students

**Berkelhamer Scholarship.** A scholarship has been established by the family of Dr. Ralph C. Berkelhamer, graduate of the University of Illinois College of Medicine, who died as a prisoner of war in October, 1944. One hundred dollars is awarded yearly to a deserving and needy student.

**General Assembly Scholarships.** Each member of the General As-

Courtyard Facing the Library



sembly may nominate, annually, one student from his district for a scholarship to the University. Provision is made for substitute appointments in case the original nominee fails to qualify or discontinues his course. This scholarship exempts the holder from the payment of the tuition fees *only* in any course in the University for a period of four years.

**Military Scholarships.** Any person who is not receiving financial assistance for educational purposes from the federal government and who served in the Army, Navy, Air Force, or Marine Corps of the United States during World War I, or at any time after September 16, 1940, and who has been honorably discharged, is entitled to a scholarship to the University of Illinois if he possesses the necessary entrance requirements and if he was a resident of the state of Illinois or a student in the University of Illinois at the time of enlistment. This scholarship exempts the holder from the tuition fees in any course in the University for four years. Applications for these scholarships may be procured from the Office of Admissions and Records.

**Moldavsky Scholarship.** This scholarship, presently amounting to \$500.00 a year, is available to a regularly enrolled student in the College of Medicine who is in need of financial assistance and who has demonstrated outstanding qualities in course work in physiology.

**Rea Scholarships.** The annual income from a fund established in 1899 by the will of Dr. Robert Laughlin Rea is used for four scholarships, awarded by a committee of the faculty, to help pay the tuition fees of needy students in the College of Medicine. First-year students are not eligible.

**Streicher Memorial Scholarship.** An endowment fund has been established by colleagues and friends of the late Dr. Michael Henry Streicher, who was a member of the Department of Medicine for many years. The income from this fund is used as a scholarship for a capable and needy student enrolled in the College of Medicine. Other things being equal, preference is given to sons or daughters of graduates of the University of Illinois College of Medicine. After the award is made, if circumstances warrant, the award is reassigned annually as long as the student is enrolled as an undergraduate in the College of Medicine.

**Williamson Memorial Scholarship.** Members of the faculty and friends of the late Professor Charles Spencer Williamson, for many years Head of the Department of Medicine, have established an endowment fund, the income from which is used as a scholarship for a capable and needy student, either graduate or undergraduate. The award is made

by the Dean of the College of Medicine and the Head of the Department of Medicine.

**Woman's Auxiliary Scholarships.** The Woman's Auxiliary of the Chicago Professional Colleges at the present time offers two scholarships of \$250.00 each annually to students in the College of Medicine. The recipients are selected on the basis of scholarship, need, and adaptability.

**Yarros Scholarship.** This fund was established by Victor S. Yarros to continue the scholarship program begun in 1948 in memory of his wife, Dr. Rachelle S. Yarros, formerly Professor of Social Hygiene at the University of Illinois College of Medicine. Scholarship awards in varying amounts up to \$500.00 in any one year are available to deserving and needy students enrolled in the College of Medicine.

**Other Scholarships.** In addition to the scholarships listed above, funds are received annually from a variety of sources to provide financial assistance to medical students.

### **Scholarships for Occupational Therapy Students**

There are a number of scholarships available to occupational therapy students from state, federal, and private organizations. These scholarships vary in amount, and are governed by regulations prescribed by the organizations. The organizations offering these scholarships include the Office of Vocational Rehabilitation, state mental health organizations, and fraternal organizations. Applications may be made to the Dean of Admissions and Records, 100a Administration Building, University of Illinois, Urbana, who is chairman of the committee which selects candidates. Recommendations of the director of the occupational therapy curriculum are considered in selecting candidates for the awards.

### **Prizes for Medical Students**

**Beaumont Memorial Prize.** The late Dr. Frank Smithies of Chicago, endowed an annual prize in memory of William Beaumont, the famous surgeon of the nineteenth century. The prize is awarded by a committee to the student or faculty member of the College of Medicine who submits the best original work on diseases of the alimentary tract.

**Borden Undergraduate Research Award.** The Borden Company Foundation, Inc., has established a \$500.00 yearly prize for the student in the graduating class who during any year while enrolled in the Col-



lege of Medicine as a candidate for the Doctor of Medicine degree is judged to have performed the most meritorious piece of research. Originality and thoroughness of the research are of primary consideration.

**Sigma Xi Prize.** A prize of \$25.00 is awarded annually by the Society of Sigma Xi for the best piece of scientific investigation on the part of any student in the College of Dentistry, the College of Medicine, or the Chicago departments of the Graduate College, who is without a salaried appointment by the Board of Trustees of the University.

**Other Prizes.** Special prizes and awards are available annually from gifts and grants-in-aid. Such awards are publicized and administered by faculty committees.

### **Loan Funds for Medical Students**

Several loan funds have been established for the benefit of worthy students who are in need of financial aid in order to finish their courses. Information concerning these funds and the regulations governing loans may be obtained from the Office of the Dean of Student Affairs.

**Emergency Loan Fund.** Emergency loans are made to students in the College of Medicine from a fund established by students and staff members and from general University loan funds.

**Long-Term Loan Fund.** Long-term loans are limited to \$1,000 for any one year and a maximum of \$2,500 while a student is attending the University of Illinois College of Medicine. Long-term loans bear interest at the rate of 3 per cent from the date of graduation.

**Chicago Memorial Hospital Women's Auxiliary Loan Fund.** This fund, established in 1955 by a gift from the Women's Auxiliary of the Chicago Memorial Hospital, is for loans to needy and qualified students in the College of Medicine.

**Poncher Foundation Fund.** A revolving loan fund created by friends of Dr. Henry George Poncher, former Professor and Head of the Department of Pediatrics at the University of Illinois College of Medicine, provides loans up to \$1,000 with liberal repayment privileges after the period of medical training is completed. Loans are limited to qualified junior or senior premedical students and medical students.

### **LECTURESHIPS**

**Bacon Lectureship.** In 1927, when Dr. Charles S. Bacon, on reaching the retiring age, was made Professor of Obstetrics, *Emeritus*, mem-

bers of the faculty and friends of Dr. Bacon contributed the sum of \$5,000 to found the Charles S. Bacon Lectureship in Obstetrics. The income from this fund is used to defray expenses of lectures given each year at the College of Medicine.

**Davis Lectureship.** The inauguration of the D. J. Davis Lecture-ship on Medical History was held on October 15, 1943. These lectures are maintained by interest on the funds subscribed by friends and associates of Dr. Davis, Professor of Pathology and Dean of the College of Medicine, *Emeritus*, who served the University for thirty years.

**Gehrmann Lectureship.** In 1924, in accordance with the will of Mrs. Albertina Gehrmann, widow of Dr. Adolph Gehrmann, for many years Professor of Bacteriology and Hygiene in the College of Medicine, the sum of \$10,000 was given for the support of an annual lectureship in memory of Dr. Gehrmann.

**Hedblom Lectureship.** In 1938 the Phi Beta Pi medical fraternity contributed a fund to establish an annual lectureship in honor of Dr. Carl Hedblom, who until his death was Professor of Surgery and Head of the Department. Dr. Hedblom had an international reputation in the field of chest surgery.

**Irish Lectureship.** In 1946 the Eta Chapter of Alpha Kappa Kappa fraternity endowed an annual lectureship as a memorial to the late Head of the Department of Pediatrics, Dr. Henry Irish.

## **ORGANIZATIONS**

### **Alumni Association of the College of Medicine**

**PRESIDENT:** W. Francis Jacobs '33, 4051 West North Avenue, Chicago 19.

**PRESIDENT ELECT:** Walter E. Simmonds '14, 224 South Marion Street, Oak Park, Illinois.

**FIRST VICE-PRESIDENT:** Marcus R. Caro '27, 25 East Washington Boulevard, Chicago 2.

**SECRETARY-TREASURER:** George W. Moxon '26, 2416 North Neva Avenue, Chicago 35.

### **Alpha Omega Alpha**

The international honorary medical society Alpha Omega Alpha was founded at the College of Medicine in 1902. High-ranking students in the third and fourth years are eligible for election to membership.

**FACULTY ADVISER:** Nicholas J. Cotsonas.

### **Pi Kappa Epsilon**

Pi Kappa Epsilon is a national honorary medical fraternity to which members are elected on the basis of character, personality, and professional qualities.

FACULTY ADVISER: Marvin J. Colbert.

### **Sigma Xi**

In 1928 the Society of Sigma Xi granted a charter for the organization of a chapter of this society at the College of Medicine. Its object is the promotion of research.

Statue of Apollo in the Central Court of the Campus of the Chicago Professional Colleges. Erected in 1946, this statue commemorates the founding of Alpha Omega Alpha, medical honor society, on this campus in 1902.



## INSTRUCTIONAL PROGRAM

In its determination to provide the students of this College of Medicine with the best possible educational opportunity, the faculty recently committed itself to a carefully designed and all-inclusive study of its educational programs. An Office of Research in Medical Education was created to lend direction and implementation to this study. Although the program of study is still in an early phase, some curricular modifications have been made and additional changes are clearly in sight and may be implemented within the biennium covered by this catalog.

The program is designed to place increasingly upon the student the responsibility for learning and to encourage to the fullest the development of intellectual curiosity. In all years of study from the first through the fourth, the program is designed to teach the scientific method, to promote learning by problem-solving, and to develop the skills and attitudes of a mature physician.

During the first two years the curriculum provides for the study of the sciences that are basic to medicine (anatomy, biochemistry, microbiology, pathology, pharmacology, and physiology). Throughout this period emphasis is placed on correlation and integration of subject matter, and an opportunity is provided to the student to learn much concerning physical and emotional growth and development of human beings. Increasingly in the sophomore year, the student acquires familiarity with the methods and techniques of evaluating patients and the disorders which affect them.

The third and fourth years are devoted to the study of clinical subjects. The program of teaching and learning is conducted principally in the clinical clerkships in the wards and outpatient departments of the University hospitals and the affiliated teaching hospitals. The clerkships provide an opportunity for the student to examine, observe, and evaluate patients under close supervision. Supplemental information is provided by means of lectures, conferences, assigned reading, and library research.

The third-year program is built around clerkships in medicine, pediatrics, and surgery, each of twelve weeks' duration. In the fourth year the program is divided into four twelve-week quarters as follows:

- a) One quarter of obstetrics and gynecology
- b) One quarter of medicine and surgery
- c) One quarter of outpatient work in which medicine, surgery, psychiatry, and dermatology are emphasized
- d) One quarter of elective work (alternative program quarter).



## FIRST AND SECOND YEARS

Subjects	First Quarter		Second Quarter		Third Quarter		Total Clock Hours
	Didactic	Laboratory	Didactic	Laboratory	Didactic	Laboratory	
FIRST YEAR							
Anatomy (Gross).....	25	58	23	53	23	53	235
Histology.....	25	58	23	53	0	0	159
Neuroanatomy.....	0	0	0	0	23	53	76
Biological Chemistry....	46	0	42	0	22	55	165
Integration and Correlation.....	16½	0	16½	0	16½	0	49½
Physiology.....	46	44	42	40	42	40	254
Psychiatry.....	12	0	11	0	11	0	34
Emergency Surgery.....	11	0	10	0	10	0	31
Total.....	181½	160	167½	146	147½	201	1003½
SECOND YEAR							
Examination of the Patient.....	9	33	12	30	12	30	126
Medicine.....	0	0	0	0	31	0	31
Microbiology.....	35	68	22	42	0	0	167
Pathology.....	57	68	42	62	62	62	353
Pharmacology.....	23	0	32	30	32	20	137
Preventive Medicine.....	8	0	10	0	11	0	29
Psychiatry.....	12	0	11	0	0	0	23
X-ray.....	0	0	0	0	10	0	10
Surgery.....	0	0	0	0	31	0	31
Correlation.....	24	0	22	0	22	0	68
Total.....	168	169	151	164	211	112	975

## THIRD AND FOURTH YEARS

Subjects	Third Year	Fourth Year
<b>MEDICINE CLERKSHIP SERVICE</b> .....	12 weeks	12 weeks
Includes the following specialties:		
Dermatology		
Internal Medicine		
Sociology and Jurisprudence		
Neurology		
Pathology, Autopsies		
Psychiatry		
Public Health		
Therapeutics		
<b>SURGICAL CLERKSHIP SERVICE</b> .....	12 weeks	12 weeks
Includes the following specialties:		
Anesthesia		
Anatomy, Topographic		
Neurosurgery		
Ophthalmology		
Orthopaedics		
Otolaryngology		
Roentgenology		
Surgery		
Urology		
<b>OBSTETRICS AND GYNECOLOGY</b> .....		12 weeks
<b>PEDIATRICS</b> .....	12 weeks	
<b>FOURTH QUARTER PROGRAM</b> .....		12 weeks

The subject matter presented within the programs is defined in course descriptions of individual departments in the following sections of the catalog. Attention is directed specifically to department course numbers 399 which explain the opportunities for elective work in the alternative program quarter.

Appropriate assessments of student learning and progress are made periodically under the administration of the Committee on Appraisal. As a part of this procedure the examinations of the National Board of Medical Examiners (Part I at the close of the sophomore year and Part II at the close of the senior year) are required.

## **COURSES OF INSTRUCTION**

The following list of courses is in alphabetic order of departments. Names of staff members in each department are listed by rank. The courses offered in each department are listed numerically. In the description of each course the letters F, W, Sp, and S indicate the fall, winter, spring, and summer quarters, and the periods of time required each week apply to the whole quarter unless the number of weeks is stated. Credit is calculated in clock hours.

### **ANATOMY**

*Professors:* REYNOLDS (Head of Department), COOPER (*Emeritus*), DU BRUL, KAMPMEIER (*Emeritus*), KREHBIEL, PLAGGE, SIMER, VON BONIN (*Emeritus*), ZIMMERMAN (*Emeritus*).

*Associate Professors:* GAMBLE, JORANSON (*Emeritus*), A. LA VELLE, ZECHEL (*Emeritus*).

*Assistant Professors:* CASELLA, CIPOLLA, DE FEO, KHEDROO, LARRAMENDI, MAIBENCO, MACRAE, MONSEN, SCHMIDT, VAN ALTEN, VICARI.

*Research Associates:* CARSTENS, HAEBICH, F. LA VELLE, YOCHIM.

*Instructor:* RANSFORD.

*Research Assistant:* MACKIE.

The course in anatomy is offered in the fall, winter, and spring quarters of the freshman year. It includes gross anatomy (301) which continues throughout the year, microscopic anatomy (302), including embryology, during the first two quarters, and neuroanatomy (303) in the final quarter. In each of these courses the essential morphological features and characteristics of the human body are emphasized, developmental concepts are stressed, and attention is given to situations in which morphological and functional interdependence is prominent.

An attempt is made to emphasize the developmental and ever-changing aspects of living structures at different phases of life, although most emphasis is necessarily laid upon the adult human organism.

The course consists for the most part of four hour lectures a week followed by laboratory periods of two and one-half hours dissection or microscopic study of tissues. Throughout the course an attempt is made to integrate and synthesize the material so the student sees that growth and development represent life processes, and that these are, therefore, intimately related to the courses of the medical curriculum which follow, especially to pathology, medicine, and surgery.

The department shares responsibility with other basic science departments, cooperating with appropriate clinical departments, in a one and one-half hour weekly correlation course of study. This runs throughout the year. It is designed to cut across boundaries of the classical disciplines of anatomy, physiology, and biochemistry in order to provide an opportunity for students to obtain a glimpse of the horizons of knowledge which lie ahead, not yet in textbooks, or which remain to be discovered.

The Department of Anatomy offers certain elective courses for those medical students who, with an aim toward research, wish more extended opportunity for study in this basic science. Arrangements for such courses must be made on an individual basis with the staff.

Elective courses are available each quarter in conjunction with the Graduate College.

### **Required Courses — First Year**

301. **Human Gross Anatomy.** Dissection of the human body, consideration of development of organ systems, X-ray anatomy. 230 hours; continuous through F, W, and Sp.
302. **Human Histology.** Microscopic study of the tissues and organs, histogenesis, placentation, early embryonic development. 155 hours; continuous through F and W.
303. **Human Neuroanatomy.** Gross and microscopic structure, development of the central nervous system. 55 hours; Sp.

### **BIOLOGICAL CHEMISTRY**

*Professors:* WINZLER (Head of Department), BERGHEIM (*Emeritus*), BINKLEY.

*Associate Professors:* ABOOD, HORWITT, JOHNSON, MYERS, RAFELSON.

*Assistant Professors:* HAYASHI, JEFFAY, KOHN, LYON, MARKOWITZ, MATTENHEIMER, PANOS, SKY-PECK, STEWART, TITCHENER, WEISSMANN.

*Instructors:* BRUNNGRABER, COLEMAN, GLASKY.

*Research Associates:* DOUGHTY, GABALLAH, LANGE, B. ROBERT, L. ROBERT.

*Research Assistants:* BORNSTEIN, DENNEN, EICHHOLZ, HARDY, KOORAJIAN, PREVIC, ROWIN.

Biological chemistry is a science in which the fundamental knowledge of the various branches of chemistry (analytical, inorganic, organic, and physical), physics, and biology are combined to seek a better understanding of the chemical constitution and processes of the living organism. The subject has two general aspects which extend the sciences of anatomy and physiology into the realm of the invisible: chemical structure is anatomy at the molecular level; the study of the chemical processes of the living organism is physiology at the molecular level.

The three-quarter course (fall, winter, and spring quarters of the first year) in biological chemistry required of all students in the College of Medicine emphasizes the chemical and biological principles involved in living processes with as much integration with the other preclinical sciences (anatomy, microbiology, pathology, pharmacology, and physiology) and clinical sciences as seems feasible at this stage of medical education. A foundation is laid upon which the student can and must build as other subjects are studied, if the full benefits of chemistry to clinical medicine are to be obtained. Stated in more detail, the course has four principal objectives: (1) to teach students to think in terms of chemistry about physiological processes and changes; (2) to develop an appreciation of quantitative thinking and action; (3) to develop technical skill; (4) to familiarize students with some of the more important clinical chemical concepts.

Opportunities are offered, to the extent that facilities are available, for advanced study and research for those students who wish further knowledge and experience in this field. Such students should consult the department for further information.

### **Required Courses — First Year**

**301-302-303. Biological Chemistry.** Chemistry of the constituents of tissues and body fluids, and current methods for their qualitative and quantitative determination; digestion, absorption, and intermediary metabolism of lipids, proteins, and carbohydrates in health and disease, and the role of hormones, vitamins, and enzymes in the regulation of these processes; the application of this knowledge to the problems of disease. Lectures, conferences, and laboratory. Four hours each week, F and W; seven hours each week, Sp.

## **CLINICAL SCIENCE**

*Professor:* IVY (Head of Department).

*Assistant Professors:* HWANG, LIN.

*Research Associates:* KAHN, NELSON, PARK, STEVENS, WOJCIECH, YUSEM.

*Research Assistant:* LIEPINS.

Clinical science is a branch of medical science which seeks answers to the problems of the cure and prevention of disease by applying a multilateral approach. Observations and experiments are made on living men as well as dead men, on man as well as animals, and at the bedside as well as in the laboratory. For undergraduates, instruction in physiology of symptoms is presented in conjunction with correlation conference exercises. The graduate teaching program includes a large research program on a variety of subjects, using the broad approach indicated above.

## DERMATOLOGY

*Professors:* ROSTENBERG (Head of Department), CORNBLEET, MITCHEL (*Emeritus*), WEBER.

*Associate Professors:* FINNERUD, GRIFFITH, HAEBERLIN, NEUHAUSER, ROBIN, SHELOW, SLEPYAN, SZYMANSKI, TAVS.

*Assistant Professors:* BARSKY, BECKER, BIELINSKI, FALK, RUBIN, YAFFE.

*Associates:* HETREED, OLIVER, SMITH.

*Instructors:* MEDANSKY, PEARL, SPINKA.

*Assistants:* FOX, GECHT, SCHMEROLD.

Diseases of the skin comprise a high proportion of the cases seen by many physicians. To acquaint the student with the many disorders that may affect the skin, the subject of dermatology is taught throughout the junior year.

Some cutaneous disorders, such as certain tumors or contact dermatitis, manifest themselves only in the skin. Other skin lesions are expressions of underlying systemic disease. It is important that all physicians, general practitioners and specialists alike, become familiar with these clues to diagnosis.

A course of lectures covering the most common diseases of the skin is given during the junior year. Emphasis is placed on the diseases most likely to be seen in practice and on those having systemic significance. Consideration is also given to the diagnosis and treatment of industrial dermatoses and to the preventive measures that are available. The role of allergy in dermatology and the psychosomatic aspects of skin diseases are considered. Syphilis from the point of view of morphologic diagnosis, serologic diagnosis, and therapy is considered. Colored lantern slides both of clinical cases and of histopathologic sections are used extensively as visual aids.

### Required Courses — Third Year

#### 350. Lectures on Dermatology, Syphilis, and Special Topics in Dermatology.

A formal coverage of the entire field of dermatology by means of lectures, kodachromes, and demonstrations. Following this, a series of twelve lectures covering the differential diagnosis of pruritus, ulcers, and mucous membrane lesions of the mouth. In addition, the immunological and



psychosomatic aspects of dermatology are taken up. Presented to half the class during first two quarters and repeated for second half in next two quarters. One hour a week for twenty-four weeks; S, F, W, and Sp.

351. **Clinical Dermatology.** Given in conjunction with Dermatology 350. The presentation of cases with a discussion of diagnosis and therapy. Demonstrations are given of various procedures such as punch biopsies, freezing technics, cauterization, and electrodesiccation for the diagnosis and treatment of skin lesions. In addition, lectures on pigmentary disorders and on the topical therapy of skin diseases are given. Four hours a week for twelve weeks; S, F, W, and Sp.

### Elective Courses

399. **Alternative Program in Dermatology.** This course provides additional clinical training in the diagnosis and therapy of skin diseases. The student participates in ward rounds and is given an opportunity to acquire the rudiments of dermatologic histopathology. Limited to six students; course meets every afternoon for twelve weeks. Selected students also are given an opportunity to participate in the departmental research. For such students, the course requires the entire day for twelve weeks. Prerequisite: Dermatology 351. F, W, and Sp.

## MEDICINE

*Professors:* DOWLING (Head of Department), ABRAMSON, ALVAREZ (*Emeritus*), ARKIN (*Emeritus*), BIRCH, CAMPBELL, EYERLY, FISHBEIN (*Emeritus*), FOLEY, FREILICH (*Emeritus*), HIBBS (*Emeritus*), HICK, W. S. HOFFMAN (Lecturer), JACKSON, KARK, F. B. KELLY, LUETH, MONTGOMERY, PFUETZE, W. E. POST (*Emeritus*), RAPPAPORT, ROBERG, SAMTER, SCHWARTZ, S. STRAUSS (*Emeritus*), THOMAS (*Emeritus*), VANDERKLOOT (*Emeritus*).

*Associate Professors:* AFREMOW, BARTON, A. BERNSTEIN, BLISS, CAPPS, COTSONAS, FELDMAN, FISCHER, FRANKLIN, GOLDBERG (*Emeritus*), GRAETTINGER, GRAY, HELLER, IRONS, KELLOW, KENDRICK, KNIGHT (*Emeritus*), KORN, LENDRUM (on leave of absence), LEVITT, LICHTENSTEIN, LIMARZI, LITTMAN, LUNDY, LUSK (*Emeritus*), McMILLAN, MILLER, MOSKO, J. T. PAUL, O. PAUL, PERLSTEIN (*Emeritus*), PILOT, POLLEY, S. H. ROSENBLUM, SAPHIR, SCHOENBERGER, SHEAFF (*Emeritus*), SPELLBERG, STECK, STEIGMANN, STUPPY, TAYLOR, TRAUT, TRIMMER, TROBAUGH, WAKEFIELD (*Emeritus*), WOOD.

*Assistant Professors:* AKRE, AMTMAN (*Emeritus*), ANAST, BALCH, BEERS, BERG, L. M. BERNSTEIN, BERRYMAN, W. R. BEST, BREBIS, BREUHAUS, BRONSKY, R. G. BROWN, BROWNS, BYFIELD, CARTON, CHERTACK, COLBERT,

COOGAN, CRETICOS, DAKIN, DEUSS (Lecturer), EHRLICH, FRANZBLAU, FREUND, GALT, GANTT, GARDINER (*Emeritus*), GOLDWASSER (*Emeritus*), GUNNAR, GUNTHER, HALL, HAND, HILKEVITCH (*Emeritus*), HUNTER, E. KAPLAN, KESLER, KINNEY, KOFMAN, KOIK, KRASNOW, LAING, C. H. LAWRENCE, LEVY, MEHLMAN, MUEHRCKE, MUENSTER, NECHELES, NELSON, PERLMAN, POSKE, J. POST, PREC (Lecturer), PRESLEY, PYLE, RANKE, RAVENNA, A. H. ROSENBLUM, RUGGIE, RYAN, SAPIENZA, SCHICK, SHARP, N. E. SMITH, STRAUS (Lecturer), VANCE, WEISBERG, G. A. WILLIAMS, WILLOUGHBY, WISS, WOLF, ZIVIN.

*Research Assistant Professor:* POLLAK.

*Associates:* BALLARD, R. J. BECKER, BRIXEY, J. A. DAVIS, B. W. FOX, FOX-WORTHY, FRUIN, GOLDMANN, GRIMELLI, GROSZ (*Emeritus*), HEDBLUM, R. N. HEDGES (*Emeritus*), HIGHSTONE, HOEPPNER, B. M. KAPLAN, KIRBY, LEE, MAMBY, NALEFSKI, O'BRIEN, RHETTA, ROSKELLEY, SALBERG, SCALA, SCHOOLMAN (on leave of absence), VIL, J. L. WILLIAMS (*Emeritus*).

*Research Associates:* T. O. ANDERSON (on leave of absence), BABA, EMANUELL, GOLDSMITH, LOUIS, MULDOON, TASCHINI.

*Instructors:* ALBALA, C. C. ANDERSON, ANDREWS, B. E. ARMSTRONG, BACKER, BALDWIN, BERGER, BESSINGER, BRETZ, BROOKS, W. C. BROWN, BUDRYS, F. C. CARTER, CIRZAN, COTTS, DALE, J. C. DAVIS, DEDMON, DEJONG, DETWEILER, DEYOUNG, DIGILIO, DIMICK, DYNIEWICZ, ECKLUND, FARAGO, FELIX, FITZPATRICK, FLANAGAN (on leave of absence for military service), R. E. FOX, FREUD, GAILITIS, GARR, GEBUHR, GREENSPAN (on leave of absence), GRIEBLE, HAYES, R. N. HEDGES, JR., HERTING, A. HOFFMAN, HUDSON, IGLITZEN, INAYATULLAH, JAMIESON, JENSEN, JOHNSTON, F. W. JONES, J. C. JONES, P. N. JONES, KAGANIEC, KASSRIEL, F. B. KELLY, JR., KIRKLAND, KULIS, LICHTER, MCCABE, MANN, MARSI, MATLIN, MAYER, MEDENIS, MEREDITH, MEYER, MORRISON, NEWTON, NORA, ODEN, OHRINGER, PACINI, PENEV, PERLIA, PHELAN, PRESTIPINO, PRICE, PULOS, ROBBINS, ROSSET, SCHUESSLER, SCUPHAM, SHAFTER, SHOMAKER, SILINS, SLAYTON, SLUZYSKI, C. W. SMITH, SNAPP, SOBEL, STARR, STONE, J. F. STRAUSS, TARUM, TARZYNSKI, TAUSK, TEPLITZ, THRIFT, TOIGO, TWISS, VONDRASEK, J. WILLIAMS, WINTER, WOLFE, ZVETINA.

*Assistants:* E. T. ANDERSON, F. O. BECKER, J. D. BEST, BOWYER, BRAMS, BRANIT, CARO, J. A. U. CARTER, CECE, CHERNIACK, CLAY, COHEN, DARLING (on leave of absence for military service), DEVETSKI, DILL, ELWOOD, ERLNBORN, FORAN, FOTH, GONNELLA, HAASE, HANDLER, INDREIKA, KAHN, KARTUN, KEER, KEFALIDES, KEMPER, KOIVUN, KRISTY, LAMPE, J. R. LAWRENCE, LOCKHART, MCCREARY, MUELLER, O'BOYLE, PATTON, REED, ROSENBERG (on leave of absence for military service), RUSH, SASSETTI, SCARDINO (on leave of absence for military service), SILVERMAN, SLODKI, STAUNTON, STUTZMAN, TANNENBERG, WISMAR.

*Research Assistants:* ADEN, M. R. BERNSTEIN, CHUN, COOPER, DONATH, M. F. JONES, KENNEDY, MCCLAIN, MELLODY, RUBENIS, URIU.

### **Required Courses — Second Year**

325. **The Examination of the Patient.** Instruction in history-taking and physical examination of the patient. Normal findings are demonstrated early in the course, and thereafter work on the wards of six hospitals deals with the close study of patients with abnormal findings. A one-hour lecture once a week deals with selected topics not covered in the texts. Special instruction is given in the Departments of Obstetrics, Orthopaedic Surgery, and Otolaryngology. Small sections of four students meet with an instructor for a three-hour practical teaching session once a week; F, W, and Sp.
326. **Systematic Study of Important Diseases.** The first series of lectures covering the major diseases in the field of internal medicine. Three hours each week; Sp.

### **Required Courses — Third Year**

350. **Systematic Study of Important Diseases.** Continuation of lectures covering the major diseases in the field of internal medicine. Two hours each week; continuous through F, W, and Sp.
354. **Bedside Teaching Clerkship.** Cook County Hospital and Presbyterian-St. Luke's Hospital. Students are directed in their work by the associates and attending men of these hospitals. Thirty-five hours each week; F, W, and Sp.

### **Required Courses — Fourth Year**

377. **Outpatient Clerkship.** Research and Educational and Presbyterian-St. Luke's Hospitals. One-fourth of class. Nine hours each week for twelve weeks; S, F, W, and Sp.
378. **Inpatient Clerkship.** Research and Educational Hospitals and West Side Veterans Administration Hospital. Minimum of forty-four hours each week for six weeks; S, F, W, Sp. Additional time may be required at the discretion of the chief of the medical service to which the student is assigned.

### **Elective Courses**

399. **Tutorial Studies in Internal Medicine.** These studies are pursued with members of the Department of Medicine at Chicago-State Tuberculosis Sanitarium, Cook County Hospital, the Hines and West Side Veterans Administration Hospitals, Presbyterian-St. Luke's Hospital, and the Research and Educational Hospitals. An intensive three-month course,



under tutorial supervision, in a clinical or investigative area of internal medicine. A short thesis is required. Forty-four hours each week; S, F, W, and Sp.

### **Required Courses — Occupational Therapy Students**

**324. Lectures on Medical Conditions.** Lectures and clinics in medicine for occupational therapy students. Twelve hours of lecture and twelve hours of clinic; Sp.

## **MICROBIOLOGY**

*Professors:* NOVAK (Head of Department), KEMPF.

*Associate Professors:* LE BEAU, MEYER, VICHER.

*Assistant Professors:* FORSTER (Lecturer), HAMMOND, KHOBYARIAN, KROEGER, PUMPER, SIBAL.

*Instructors:* GERENCSEK, HOCHSTEIN, HUBBLE (Lecturer).

*Assistant:* KNOLL (*Emerita*).

The course in microbiology is offered during the first and second quarters of the second year. Instruction is based upon a study of fundamental principles involving morphology, physiology, and distribution of bacteria and related organisms. Following a brief study of representative members of nonpathogenic and useful species, the student is introduced to the study of harmful bacteria and the nature of the diseases which they produce, together with antibiotic concepts and immunological and serological considerations. Pathogenic fungi, rickettsia, and viruses are included in this beginning course, as well as organisms responsible for tropical diseases. Special emphasis is placed on the ubiquitous nature of bacteria so that the student can more readily comprehend epidemiological problems and the host-parasite relationship in subsequent courses. Laboratory, diagnostic, and other practical procedures are stressed, as well as the interpretation of laboratory results in the light of other clinical evidence. During the second quarter, hospitalized patients with typical bacteriological entities are presented as diagnostic problems, and demonstrations are conducted emphasizing important historical data and the need for further laboratory studies. The taking from patients of specimens for bacteriological analysis by proper aseptic technique is demonstrated. Completion of an individual project by each student is required.

Undergraduate courses in microbiology are also offered to dentistry, occupational therapy, nursing, and pharmacy students.

A full program of graduate work, including individual courses in advanced medical microbiology, virology, cytology, genetics, mycology, immunology, and immuno-chemistry, is offered to medical students who can qualify for graduate work leading to the M.S. or Ph.D. degree. Complete descriptions of courses

and requirements for registration of medical students for concurrent work toward a graduate degree in microbiology are contained in the Graduate College catalog. Properly qualified medical students are encouraged to gain experience in the field of research through pursuit of graduate studies and to discuss these possibilities with members of the microbiology staff.

### **Required Courses — Second Year**

- 325. Bacteriology and Related Microbiology.** A study of the general morphology, metabolism, serology, and pathogenicity of the important microbial agents of communicable diseases; action of germicidal agents, sulfonamides, penicillin, streptomycin, and other antibiotics; factors in parasitic offense and mechanisms of host defense. Detailed consideration of pathogenic bacteria. Three lectures and six hours of laboratory each week; F.
- 326. Bacteriology and Related Microbiology.** Continuation of Microbiology 325. Detailed consideration of intestinal pathogens, water and milk sanitation, anaerobes, viruses, pathogenic fungi, protozoa, spirochetes, rickettsia, and other microbial agents of disease. Serological methods and routine hospital laboratory procedures applicable to diagnosis of communicable diseases. Two lectures and four hours of laboratory each week.

### **Required Courses — Occupational Therapy Students**

- 324. General Bacteriology.** General aspects of bacteriology and immunology including emphasis on preventable aspects of communicable diseases. This course is designed entirely for the needs of occupational therapy students. Three lectures and three hours of laboratory each week for four weeks; F.

## **NEUROLOGY AND NEUROLOGICAL SURGERY**

*Professors:* OLDBERG (Head of Department), AVERY, O. T. BAILEY, P. BAILEY (*Emeritus*), F. A. GIBBS, GUSTAFSON (on leave of absence), LICHTENSTEIN, MACKAY, SUGAR.

*Associate Professor:* GARVIN.

*Assistant Professors:* ARNOLD, HAASE, TEXTOR.

*Associates:* JOHNSON, ZOLT.

*Research Associate:* STAMPS.

*Instructors:* LAYTON, MANFREDI, METRICK, ROSENBLUTH, ROWLEY, SORUM.

*Assistants:* ELWOOD, KAGEN, LIPPE, PIROGLU, SELBY, TOBIAS, TSUCHIYA, WACASER.

*Research Assistants:* E. L. GIBBS, RICH.

Neurology and neurological surgery are the sciences having to do with the diagnosis and treatment of organic medical and surgical conditions affecting the central and peripheral nervous system.

The teaching for sophomore students includes six lectures on the fundamentals of the neurological examination. These are incorporated into the course in physical diagnosis conducted by the Department of Medicine. Five lectures on basic neuropathology are also incorporated into the course in general pathology. Instruction in the winter quarter of the junior year embraces the fundamentals of neurology, including the complete neurological examination of the individual, together with the interpretation of the abnormal findings which exist when various parts of the nervous system are affected. Lectures and clinical presentations on the medical diseases affecting the nervous system, including their symptoms, courses, pathological bases, and treatment, are given in the spring quarter of the junior year. In the senior year, instruction includes a course in clinicopathological correlation of the various processes affecting the nervous system; and a course in the fundamentals of neurological surgery.

A portion (forty students) of the senior clinical clerkship under the direction of the Department of Medicine, is assigned to the neurology outpatient department in groups of six, for six weeks each.

Graduate work is also offered in neuropathology and clinical neurology.

### **Required Courses — Third Year**

350. **Fundamentals of Neurology.** A correlation of the anatomy, physiology, pathology, and clinical examination of the nervous system. One hour each week; W.
351. **Medical Neurology.** Systematic lectures and clinical demonstrations of the principal diseases of the nervous system. One hour each week; Sp.

### **Required Courses — Fourth Year**

376. **Neurological Surgery.** Lectures and demonstrations of neurosurgical problems. Presented to half the class in one quarter and repeated for second half in next quarter. Two hours a week for twelve weeks; F, W.

### **Elective Courses**

399. **Clerkship.** A six-week clerkship (mornings only) limited to ten students. Clerks have both inpatient and outpatient work, attend rounds given by the attending staff, and attend the weekly staff conference, in which cases are demonstrated. In the twelve-week quarter, this allows for two groups of students. Five mornings each week (8:00 a.m. to 12:00 noon) and one conference hour each week (12:00 noon to 1:00 p.m.); S, F, W, and Sp.

## Required Courses — Occupational Therapy Students

324. **Neurological Conditions.** A review of anatomy and physiology of the nervous system; types of neuromuscular and sensory disturbances. Twenty hours a quarter; F and Sp.

## OBSTETRICS AND GYNECOLOGY

*Professors:* MENGERT (Head of Department), ALLEN (*Emeritus*), BOYSEN, BROWN (*Emeritus*), EDWARDS, FALLS (*Emeritus*), LASH.

*Associate Professors:* FITZGIBBONS, FRED, KLAUANS, KOBAK, LIFVENDAHL, MCCLURE, PRIEST, REZEK, WADDINGTON, WOLFF.

*Assistant Professors:* ANDRESEN, BAUM, BEEBE, BENENSOHN, BOLEY, BURCHELL, CAREY, DARO, DELEE, DIGIULIO, DRAA, FARLEY, FINOLA, GEITTMANN, GLENNER, HARROD, KAMINETZKY, KRAUSE, LOBRAICO, LONG, MAUZEY, PAYNE, PETERSON, ROOS, SERED, C. O. SMITH, SPIEGEL, TETON, WALSH.

*Instructors:* ANGELL, BARTELS, CAVERO, FAHRENBACH, FALLOON, FARMANS, GOLLIN, KAYE, KOSTELNY, LAVIERI, LEVINE, MOUZAKEOTIS, MULLEN, NYMAN, PEPPER, PILL, RICKS, ROSNER, RUTGARD, SAMPSON, SHOLDER, SIEGEL, SINGLETON, H. E. SMITH, STONE, SYLVESTER, TOLWINSKY, TREADWELL, TRUCHLY, VLASIS, WALLHEISER, WIERSMA, ZUMMO.

*Assistants:* AIMONE, BOCHNER, BONERTZ, COZAD, DAHLBERG, GILLINGER, GORDON, HASSAN, IRIGOYEN, JUSTEMA, KAHN, KARAMITSOS, KENWICK, LANGER, LEE, LEVINE, MURPHY, OBERHELMAN, OLECK, ORBAN, ROBIE, RODRIGUEZ, SYKORA.

Obstetrics and gynecology are presented to the student as a single discipline. The obstetrician-gynecologist deals with woman—as a person, during her reproductive career, and with those functional aberrations and diseases of the female generative tract occurring during any time of her life.

Teaching begins in the second year when this department participates in a course in physical diagnosis, given by the Department of Medicine. Two lectures are given to the entire class, and in addition, students in small groups spend two periods of three hours each in the clinic learning the principles of history-taking and pelvic and prenatal examination.

Following a weekly lecture course in the third year, the major teaching of this department is during the fourth year through the medium of a three-month clinical clerkship.

## Required Courses — Third Year

350. **Principles of Obstetrics and Gynecology.** The anatomy, physiology, pathology, the major disease concepts of the female genital tract, and the physiology and pathology of reproduction are presented in a series of

integrated lectures. Entire class, one hour a week throughout the academic year; F, W, and Sp.

### **Required Courses — Fourth Year**

375. **Clerkship.** Each senior student spends twelve weeks on the obstetric-gynecologic service. Approximately four-fifths of the students serve clerkships at Research and Educational Hospitals. During two weeks of this clerkship, the student is expected to stay in a dormitory ward in the hospital twenty-four hours a day, on call for all events transpiring in the birth rooms. One-fifth of the students serve clerkships at Presbyterian-St. Luke's Hospital. The entire time of each student is assigned to the Department of Obstetrics and Gynecology, irrespective of which hospital he serves. The student serves as a junior house officer, or clinical clerk, and is responsible for histories, physical examinations under supervision, and the delivery of such normal patients as may be assigned to him. Each student should expect to deliver about ten women. He also participates in all gynecologic operative procedures on his assigned patients. The student attends certain ward rounds, classes, seminars, manikin demonstrations, tumor conferences, journal clubs, and in general is merged into the total program of the department. S, F, W, and Sp.
376. **Cook County Hospital Case Presentation.** Students in small groups are detached to attend weekly case presentations and demonstrations at Cook County Hospital. S, F, W, and Sp.

### **Elective Courses**

399. **Alternative Clerkship.** This clerkship offers training in depth above the level provided by the obstetric-gynecologic clerkship. The program includes ward care, formal teaching in pathology, literature and patient care seminars, and a study of pelvic malignancy including cancer conference, general principles of therapy, and radiation and surgical techniques. Selected students may be given the opportunity to meet the course requirements by pursuing an independent, limited research project or by assisting in ongoing departmental research in cooperation with a senior staff member. Limited to five seniors. Prerequisite: Senior clerkship in obstetrics and gynecology. S, F, W, and Sp.

## **OPHTHALMOLOGY**

*Professors:* KRONFELD (Head of Department), BEARD (*Emeritus*), HUGHES, MONCREIFF (*Emeritus*).

*Associate Professors:* APPLE, FOWLER (*Emeritus*), HAAS, SNYDACKER, THEOBALD (*Emeritus*), ZEKMAN.



*Assistant Professors:* ALLEN, CLARK, FEINBERG, FOLK, N. FOX, HERBST, ISER, JONES, KIRK, MAHER, McDONALD, McGARRY, MUNDT, PEARLMAN, PUSHKIN, ROSENBERG, SCHALL, SCHERIBEL, STILLERMAN, URIST, WILDER.

*Associates:* BAYARD, JUSKA, LEECH, LIGHT, MURPHY, OLEARI, OUSQUI, PERRY, TICHIO.

*Instructors:* BROWN, CARROLL, CASSADY, CATION, DEUTSCH, FITZGERALD, S. FOX, FREEMAN, FORDON, KRIMMER, MENACHOF, RUSSMAN, SPIRO, TATAR, TENNENBAUM, TRESLEY, WEISKOPF, WOOD.

*Assistants:* ADLER, ATKINSON, BERGE, DETERS, DIAMOND, DUKES, GOLDSTEIN, HECHTER, HINKEN, HOLZBERG, JENKINS, KILLOH, KLEIS, LATTA, MILLER, NACHAZEL, NICOL, RAAB, RABB, ROBBINS, SCHMIDT, SCHWERDT, UNDERLINER.

The goal of the instruction in ophthalmology is to enable the student to integrate the principles of basic science into the problems of ocular disease, to learn about the techniques of examination of the eye, to know the ocular manifestations of systemic disease, and to recognize the common ocular diseases likely to be encountered in general practice.

This instruction is given in the form of lectures and multilithed notes during the fourth year.

Supplemental practical work in ophthalmology (clerkship in ophthalmology) is offered during the alternative quarter.

### **Required Courses — Fourth Year**

**375. Didactic Instruction.** Illustrated lectures and multilithed notes covering (1) eye manifestations of general systemic disease and (2) ocular diseases commonly encountered in the general practice of medicine. Presented to half the class during the first two quarters and repeated for the second half during the next two quarters. One hour a week for twenty-four weeks; S, F, W, and Sp.

### **Elective Courses**

**399. Clerkship.** Participation under supervision in clinical and hospital activities of the department, including attendance at clinical conferences, in specialty clinics and surgery. Limited to three students a period. Full time for two weeks; S, F, W, and Sp.

## **ORTHOPAEDIC SURGERY**

*Professors:* RAY (Head of Department), HARK, LAMBERT.

*Associate Professors:* FOX, HECK, MURPHY (*Emeritus*), SCUDERI, SHAPIRO.

*Assistant Professors:* APFELBACH, HALL, LIDGE (on leave of absence), MARSHALL, MILLER, ROSS, SHAFER, TURNER (on leave of absence).

*Research Associates:* HIDVEGI, SABET.

*Instructors:* AHSTROM, CRONIN, ELLIS, FETROW, GRIFFIN, HAMILTON, HOWARD, HUNCKE, MCCOLL, MEANY, MELTZER, NOVOTNY, NYMAN, PELLICORE, PETERSEN, RICH, TRIAS, VARZINO.

*Assistants:* FREIBERG, HEJNA, MENGUY, NEWMAN.

*Research Assistant:* MENSEN.

Orthopaedic surgery is that branch of medicine dealing with investigation, preservation, restoration, and development of the form and function of the extremities, spine, and associated structures by medical, surgical, and physical methods.

The aim of the undergraduate teaching program of the department is to give the student a basic knowledge of diseases and deformities as they affect the musculo-skeletal system. The fundamental principles of treatment are covered, including the application of casts, braces, traction, medical management, and surgery. A secondary aim is to help the student develop basic skills necessary to carry out an examination and reach a diagnosis, as well as treat the patient. During the undergraduate years, emphasis is placed on the relationship between the basic sciences, the clinical aspects of orthopaedics, the other fields of medicine and surgery, and the paramedical services.

During the sophomore year, instruction is given in the general principles of functional anatomy as they relate to the examination of the patient.

During the junior year, a series of demonstrations and conferences is given on the principles of differential diagnosis and treatment of the major orthopaedic conditions. The purpose of this course is to lay a sound foundation for the clinical clerkship which is held during the senior year.

The clerkship provides the student with an opportunity to see first-hand many orthopaedic conditions both in adults and children, to scrub with the surgical team in the operating room, to assist in the application of traction and casts, and to follow cases on the wards and in the clinics. Special seminars are held on regional examination of the musculo-skeletal system, office orthopaedics, trauma, and rehabilitation. In addition, during the senior year, instruction is given in the general principles of diagnosis and treatment of fractures.

For interested and qualified medical students, special opportunity may be provided to participate in an advanced clinical clerkship or in the departmental research program.

Advanced study in orthopaedics is provided through residencies which lead to national board eligibility.

### **Required Courses — Third Year**

**350. Clinical Orthopaedic Surgery with Demonstrations.** Consideration of orthopaedic problems and the general principles of treatment. Two hours each week; Sp.

### **Required Courses — Fourth Year**

375. **Introductory Course in Fractures.** Discussion of basic principles of fractures and their treatment. One hour a week; F and Sp.
376. **Clerkship.** Observation and study of orthopaedic cases, adult and children, together with practical demonstrations of orthopaedic conditions, ward rounds, seminars, and surgical and outpatient procedures. S, F, W, and Sp.

### **Elective Courses**

399. **Alternative Clinical Clerkship.** Opportunity is provided for participation in the activities of the Department of Orthopaedics including emergencies, special clinics, and seminars. This course is offered as a further introduction to the diagnostic problems, methods of treatment, and principles of research as applied to the musculo-skeletal system. Prerequisite: Senior orthopaedic clerkship. F, W, and Sp.

### **Required Courses — Occupational Therapy Students**

324. **Orthopaedic Conditions.** A study of the musculo-skeletal system including etiology, symptoms, and treatment of congenital abnormalities, growth and metabolic disorders, injuries, infections, and tumors. F and W.

## **OTOLARYNGOLOGY**

*Professors:* LEDERER (Head of Department), HAYDEN (*Emeritus*), HOLINGER, HOLLENDER (*Emeritus*), W. THEOBALD (*Emeritus*), VAN ALYEA (*Emeritus*).

*Associate Professors:* ANDREWS, BECKER, DALITSCH, FRIEDBERG, JOHNSTON, LEWIS, LEWY, LIVINGSTON, MORWITZ (*Emeritus*), POLLOCK, SCHOOLMAN, SKOLNIK, SNITMAN, SOBOROFF, WALLNER, WATKINS (*Emeritus*).

*Assistant Professors:* BLUMENTHAL, BUCKINGHAM, CHAINSKI, COOMBS, C. ELLIOTT, FRIEDMAN, GREENE, LOEWY, MARCUS, McCAULEY, PLOTKIN, RATKO, SATZ, SAVITT, TOROK, WOJNIAK.

*Associates:* BARTLETT, BLUMKLOTZ, ORRICO, SINGH, SMILEY, P. THEOBALD, WEIDEMANN.

*Instructors:* AUSTIN (on leave of absence), BORKENHAGEN, BREED, DALE, FERRER, FRASIER, GYORKEY, JEANTET, KODROS, KOWAL, KURTH, MANSUETO, MOZER (on leave of absence for military service), PANAGOPOULOS, PIERCE, RAZIM, SCARAMELLA, SIEDENTOP, SIRUGO, SPRINGER, STEIN.

*Assistants:* BAXTER, BLUESTONE, CONNER, EGGERT, GRIFFITH, GUEMMER, LEFFMAN, LEMEL, MATHEWS, MAURIZI, NEWELL, ROSNAGLE, SCHILD, STEFANI, TENTA, VELEK.

Otolaryngology concerns itself with the study of the upper respiratory system, the upper digestive tract, and the special senses of speech, hearing, and olfaction in health and in disease. This includes the social, physiological, and physical aberrations present when malfunction affects any of these systems. The diversity of systems and regions studied lends itself to emphasis upon divisions of the specialty, such as otology, rhinology, laryngology, bronchoesophagology, maxillofacial surgery, and audiology.

Otology, the study of the functions of the ear, not only has for its primary aim the diagnosis and treatment of diseases of the ear, but also the equally important facet of the social rehabilitation of the deaf and hard of hearing. So great are the social implications of disturbed speech and hearing, that audiology forms an important division of otolaryngology. Bronchoesophagology concerns itself with direct visualization, diagnosis, and therapy of conditions which affect the esophagus, larynx, and tracheobronchial tree.

The primary aim is to teach the undergraduate to recognize disease or malfunction in these systems and to evaluate the method of arriving at a correct diagnosis so that therapy may be intelligently applied.

For the practicing otolaryngologist, courses are offered in bronchoesophagology and in current trends in otorhinolaryngology. Those desiring to specialize in otolaryngology may enroll in a basic course designed to teach the principles and methods of the specialty. Residencies, under departmental supervision, are available in the Research and Educational Hospitals, the Illinois Eye and Ear Infirmary, Presbyterian-St. Luke's Hospital, and Hines Veterans Administration Hospital.

The following divisions are represented: (1) otolaryngology, (2) bronchoesophagology, (3) speech and hearing rehabilitation, and (4) maxillofacial surgery, including neoplasms of the head and neck. The required course of study is so arranged that didactic instruction precedes practical application of the specialty, emphasizing its relation to general medicine in a total person concept. Physical examination of the ears, nose, and throat is taught in the second year. As part of a pediatric clerkship in the third year, these diagnostic methods are given special emphasis with reference to clinical states in infants and children. In the fourth year, instruction is given in the basic principles of the specialty by lectures augmented by conferences in small groups, and through opportunities to apply the principles of diagnosis and treatment in outpatient clinics where the student is taught by direct contact with patients.

## **Elective Courses**

**399. Alternative Program Quarter.** The program includes student participation in the examination, diagnosis, and treatment of acute conditions, planning for more chronic conditions, and the follow-up care of patients in the outpatient clinic. This is conducted under supervision at the University hospitals and at the Illinois Eye and Ear Infirmary. There also

is opportunity to assist in surgery and to join ward rounds on post-operative patients. The speech and hearing staff at the Illinois Eye and Ear Infirmary demonstrates and supervises student participation in their special aspects of diagnosis and treatment. Attendance at the weekly departmental tumor conference and the weekly seminar are an integral part of the student's assignment and experience. Students join with members of the house staff in their educational and service experiences. Every afternoon Monday through Friday, for six weeks; S, F, W, and Sp.

## **PATHOLOGY**

*Professors:* KRAKOWER (Head of Department), BENNETT, FULLER, HASS, KING, LEVINSON (*Emeritus*), MILLES, PIRANI, SAPHIR.

*Professorial Lecturer:* CAHN-BRONNER (*Emeritus*).

*Associate Professors:* BAUER, GRIMM, KEARNS (*Emeritus*), LEARNER, MASON, MCGREW, NEDZEL (*Emeritus*), RUSS, SWERDLOW, THOMPSON.

*Research Associate Professor:* CATCHPOLE.

*Assistant Professors:* AYER, CHEATLE, CLASEN, ESHBAUGH, FLOBERG (Lecturer), GOLDBERG, HIRSCH (Lecturer), HOFFMAN, JOHNSON, RUBENSTONE, SCHWEITZER, VALAITIS, VAN PERNIS, WONG.

*Associate:* MALONEY.

*Research Associate:* GREENSPON.

*Instructors:* ALEXANDER, CABRERA, COX, EISENSTEIN, ERWIN, HABEGGER, HOSEK, JABLOKOW, ROWLATT, SARMENTA, SCAMMAN.

*Assistants:* GOLDMAN, MAHONY, MEDGYESY, PRITCHARD, ROSEN, WARREN.

Pathology is that branch of natural science which is concerned with disease, its essential nature, its causes and development, and the structural and functional changes occurring in the living bodies in which the disease exists.

Thus, following courses in anatomy, biochemistry, and physiology in the first year, the student is prepared to begin the study of pathology. General pathology is given during the first quarter of the second year. Special pathology and clinical pathology are presented in a single integrated program during the second and third quarters. A course in surgical pathology, given in collaboration with the Department of Surgery, is offered in the third year.

### **Required Courses — Second Year**

**325. General and Clinical Pathology.** The basic principles of pathological processes, including tissue injury and repair, inflammation, circulatory disturbances, retrograde processes, and tissue responses to specific infectious agents and neoplasms, are considered in the first part of the course. In the latter part, the disease processes affecting each organ and anatomic system



are considered in greater detail. The pathologic physiology and biochemistry of disease are closely integrated with the morphologic changes. Essential diagnostic laboratory procedures are discussed as to their purpose and the manner of evaluating the results. The laboratory exercises are designed to correlate and interpret the gross and microscopic changes occurring in diseased tissues. Essential diagnostic laboratory tests are performed in relation to the diseased organ or system under study. Thirteen hours each week, F; twelve hours each week, W; fourteen hours each week, Sp.

### **Required Courses — Third Year**

351. **Surgical Pathology.** In conjunction with their clinical work, the surgical clerks study systematically gross and microscopic specimens illustrating the common lesions removed by surgical procedures. One two-hour period each week for twelve weeks in addition to the regularly scheduled surgical-pathologic conferences; F, W, Sp, and S.

### **Required Courses — Fourth Year**

376. **Legal Medicine.** Same as Dentistry 376. Principles of law governing individual and professional rights and obligations; rights and obligations arising from the relationship of doctor (dentist) and patient and their enforcement in court; expert testimony; state medical and dental statutes and general law. One hour each week; Sp.

### **Elective Courses**

399. **Clerkship in Pathology.** Students electing this clerkship may spend the full quarter either in the division of anatomic pathology or in the division of clinical pathology, or the quarter may be divided into six weeks in each of these divisions, or six weeks in one of the divisions. The clerkship in anatomic pathology includes participation in autopsy work, surgical pathology, and in exfoliative cytology. In clinical pathology, instruction has been arranged in the fields of clinical chemistry, clinical serology and blood banking, clinical bacteriology, and hematology with particular reference to clinical correlations. During the clerkship, students are expected to attend the departmental conferences with daily review of gross material and weekly reviews of completed autopsies and interesting surgical material respectively, as well as three weekly sessions in clinical pathology. S, F, W, and Sp.

### **Required Courses — Occupational Therapy Students**

324. **Introduction to Pathology for Students in Occupational Therapy.** Reactions of tissues to injury, healing of wounds, certain aspects of neoplasia, and the more important diseases of the locomotor system. Twelve hours of lecture and demonstration; F.

## PEDIATRICS

*Professors:* SCHULMAN (Head of Department), BIGGS, BRONSTEIN, BUTLER (*Emeritus*), GASUL, GREENGARD, GRULEE (*Emeritus*), HARRISON, HOFFMAN, HOYNE (*Emeritus*), McCULLOCH (*Emeritus*), SANFORD (*Emeritus*), SPAETH.

*Associate Professors:* BRESLOW, DAMMERS, HALPERN, LEICHENGER, LEWISON, LIS, PACHMAN, RICHTER, ROSENTHAL, SHAW, STULIK (*Emeritus*), WELFORD, WELKER.

*Assistant Professors:* AGUSTSSON, ARCILLA, BARRON, BOHNING (*Emerita*), BUCHELERES, CHABOT, CHRISTOPHERSON, CRAWFORD (*Emeritus*), HALL, HYDE, JACKSON, KRAVITZ, KRUGLY, LANDER, LENDRUM, LIMOSANI, MINHAS, NAGEL, NEWMAN, PARKER, POLNIASZEK, SACKS, SALTIEL, SHMIGELSKY, SINGH, STEPAN, THOMAS, TREVINO, WOLF.

*Instructors:* BICOFF, BUDZEIKA, CHAO, KELLER, KNOBLOCK, LASSERS, LEVINE, LO PRIORE, LUBIN, MACK, MEDENIS, NOLAN, PEREZ, SACHS, SWARTS, VRLA.

*Assistants:* APPELBAUM, DE RAMOS, EMMERICH, EUGENIDES, M. FEINBERG, R. FEINBERG, KANDA, KIRKPATRICK, MOVAFAGH.

*Research Assistants:* ASROW, DEL ROSARIO.

Most of the instruction in pediatrics is given in the junior year by means of a twelve-week clerkship during which the student's entire time is devoted exclusively to the study of the child. Instead of the conventional study of the diseases occurring in infancy and childhood, the most frequently occurring symptoms of these diseases are considered from the standpoint of their physiology, pathology, diagnosis, and treatment. This is accomplished by observation and examination of the child, which leads to the correct diagnosis and treatment. These studies begin in the outpatient departments of the Research and Educational, Cook County, and Presbyterian-St. Luke's Hospitals. The students are rotated through these hospitals so that ample opportunity is given to observe the types of children who come to each of these outpatient services for treatment. Whatever treatment is given, the student thus can observe the results during the return visits of the child. If it is necessary to admit the child to the hospital services of these institutions, the student is able to follow the child's progress throughout his hospital confinement. There is ample time for complete assessment of the results and value of the therapy. The results of the patient's progress and the student's own assessment of the treatment of the disease become the subject of weekly conferences held with the instructors.

To supplement the clinical experience received by study of the individual sick child, a comparison is made with the normal, healthy child. Studies in infant feeding, with an evaluation of the child's nutritional status, are accomplished by the student through work with family groups. The student's patients thus serve to illustrate the problems encountered by physicians in medical

practice. There are demonstrations of the preparation of infants' diets and the methods and value of occupational therapy in pediatric practice. Clinical and didactic instruction in applied immunology, public health, and the treatment of contagious diseases, as well as diseases of the newborn, are also given by means of small groups assigned to the Research and Educational Hospitals, Cook County Children's Hospital, Presbyterian-St. Luke's Hospital, Cook County Hospital, Municipal Contagious Hospital, and Grant Hospital. Students may also visit nursery schools, infant welfare clinics, and school health programs, where they serve as advisory members of the medical staff.

In the basic teaching of the science of pediatrics, as little didactic instruction as possible is given. The most important part of the student's instruction rests in the observation of the individual child in health and disease, and the complete assessment of the child's condition. This encompasses an evaluation of the health of the child by the student's own observations. However, the program of study is sufficiently flexible so that the instructional staff can arrange opportunities for more intensive study of growth and development, hematology, nutrition, pediatric allergy, metabolic diseases, and endocrinology for students with special interests in any of these fields.

### **Required Courses — Third Year**

**350. Symptom Diagnosis in Infancy and Childhood.** Systematic group lectures on basic mechanisms and age incidence of twenty-four of the most common symptoms of infants and children. One hour each week; F and W.

**351-352. Clerkship.** The clinical study of the care of the infant, child, and adolescent in health and disease. History-taking, physical examination, and laboratory study of the pediatric patient is taught by intensive individual case study. This includes the physical, intellectual, and emotional growth of the child which is studied concomitantly with the medical or surgical problems presented. One hour each week is devoted to problems in pediatric dermatology, allergy, and otolaryngology. The clerkship affords a broad orientation in the fields of infant and child welfare and public health and demonstrates office pediatric practice as well as the care of the sick child in the hospital wards. Six hours a day for twelve weeks; F, W, and Sp.

### **Required Courses — Fourth Year**

**375. Diseases of Infancy and Childhood.** Twelve lectures on the differential diagnosis and its relation to age incidence in the most common diseases of children. S and W.

### **Elective Courses**

**399. Pediatric Cardiology.** Advanced training in the medical management of heart disease in infants and children, consisting of work-up of new patients,

cardiac rounds at Cook County Hospital and Research and Educational Hospitals with angiocardiography and electrocardiography sessions, and surgical conferences. Maximum enrollment, four students. S, F, W, and Sp.

### **Required Courses — Occupational Therapy Students**

**324. Pediatric Occupational Therapy.** The role of the occupational therapist in pediatrics. Twelve hours of lecture; F, W, and Sp.

## **PHARMACOLOGY**

*Professors:* UNNA (Head of Department), CAMP, DRILL (Lecturer), ISBELL (Lecturer), McGUIGAN (*Emeritus*), SHERROD.

*Associate Professors:* SCHULMAN, SMITH.

*Assistant Professors:* KIEN, MACHNE.

*Instructor:* DAVID.

Pharmacology is that branch of medical science which deals with the qualitative and quantitative aspects of the action of drugs upon living organisms. The required courses in pharmacology are specifically designed to acquaint the student with the properties and mechanisms of action of drugs used in diagnosis, prevention, and treatment of disease, thereby providing a rational basis for therapy.

Modern pharmacology embraces many areas such as pharmacodynamics, chemotherapy, toxicology, drug metabolism, psychopharmacology, pharmacotherapeutics. Pharmacodynamics is the study of the effects of chemical agents, including drugs, on cell function by experimentation on living tissues ranging from cell fractions to the whole organism; these drug-induced alterations in function and metabolism are measured by methods which are common to pharmacology, physiology, and biochemistry. Chemotherapy is the study of selective toxicity of drugs for microorganisms and parasites; studies of compounds designed to exert a selective toxicity for neoplastic cells form the basis of cancer chemotherapy. Toxicology concerns itself with the noxious action of chemical compounds and the means of combating their inimical effects. Psychopharmacology explores the effects of drugs on mood and behavior employing, among other procedures, psychometric methods developed by psychologists. Pharmacotherapeutics deals primarily with the clinical use of drugs, their action, effectiveness, and indications and contraindications in treating patients presenting signs and symptoms of abnormal functions.

It is evident that pharmacology is interwoven with all medical sciences. A clear comprehension of the chemistry of drugs and the biochemical and physiological response which they may influence is prerequisite to the interpretations of pharmacodynamics. Comprehension of the effects of drugs on patho-

logical processes requires a clear understanding of the normal anatomy and the pathology of the structures affected.

Pharmacology is also closely connected with all branches of clinical medicine; rational medication is based upon accurate diagnosis and a concise knowledge of the action of the drug prescribed either to combat the cause of the disease or to correct a dysfunction caused by disease.

Students who wish to obtain further knowledge and experience in pharmacology and pursue research in pharmacology are encouraged to consult the department. Such opportunities are available throughout the year to qualified medical students.

### **Required Courses — Second Year**

**325-326-327. Pharmacology, Toxicology, and Chemotherapy.** Lectures and discussion periods, F, W, and Sp; three-hour weekly laboratory, W; two-hour weekly demonstration, Sp. Prerequisite: Acceptable courses in biochemistry and physiology. UNNA and staff.

## **PHYSICAL MEDICINE AND REHABILITATION**

*Professors:* ABRAMSON (Head of Department), KENDELL.

*Associate Professor:* GORDON.

*Assistant Professor:* FLEISCHER.

*Instructor:* SALOMON.

*Assistant:* SCAMMAN.

*Research Assistants:* TUCK, ZAYAS.

Physical medicine and rehabilitation is concerned with the application of physical agents for diagnostic and therapeutic purposes. The physical and other properties of heat, light, electricity, water, massage, and exercise are employed for the prevention of deconditioning, mobilization of joints, increase in strength, power, and endurance, for muscle re-education, or improvement in general health and physical fitness. The techniques and procedures of physiatrics assist in the maximal utilization of residual abilities for total rehabilitation purposes. They include training in the physical skills required for independent living. Among the special services offered by the department are electrodiagnosis and electromyography.

### **Elective Courses**

**399. Practical Application of Physical Medicine and Rehabilitation.** This course is intended to acquaint the student with the physiologic and clinical basis for the use of physical therapeutic modalities and of rehabilitative procedures. Instruction in the various diagnostic tools and in the different treatment programs will be emphasized. Hospital and clinic patients are utilized. Two-week, full-time clerkship; S, F, W, and Sp.



## **Required Courses — Occupational Therapy Students**

### **324. Physical Medicine and Rehabilitation for Occupational Therapy Students.**

An introduction to the use of physical medicine in the rehabilitation of the physically handicapped. Lectures and demonstrations covering the physiologic basis of therapeutic exercise, utilization of physical modalities, methods of disability evaluation, principles of physical restoration and body mechanics, the use of assistive devices, and an analysis of disorders commonly referred to physical medicine with a discussion of therapeutic measures employed. Twenty-four hours of lectures; W.

## **PHYSIOLOGY**

*Professors:* WOLF (Head of Department), CRANDALL (Lecturer), HIMWICH (Lecturer), INGRAHAM, MARBARGER, REED (*Emeritus*), WHITEHORN.

*Associate Professors:* ALPERT, BEST, DARROW (Lecturer), GREENBERG, OMACHI, SCHWARTZ (Lecturer).

*Assistant Professors:* MAROTTA, SOUTH, TAYLOR, TEDESCHI.

*Instructors:* DOLOWY, GRIMM.

Physiology is the study of living organisms, organs, tissues, and cells with emphasis on their normal functions. It utilizes the knowledge, theories, and techniques of the physical and mathematical, as well as the biological sciences, but it remains a strict discipline with a flavor of its own.

The teaching program for undergraduate students of the College of Medicine treats mainly human and mammalian physiology. It provides a sound basis for the remainder of the curriculum and for subsequent medical practice or graduate study. Through this program the student acquires: 1) a body of knowledge in the broad discipline of human physiology appropriate to his ultimate goal of becoming a physician, 2) an understanding of relevant facts, principles, theories, and methodologies, 3) ability to translate, analyze, interpret, and utilize physiologic information, and 4) a professional attitude of responsibility for his own learning and conduct, and a skill in locating information independently.

Interested students are encouraged to pursue advanced work in physiology in the Graduate College program of the department. Opportunities to do so may be explored in consultation with staff members. Extended course offerings of the Department of Physiology are listed in the Graduate College catalog.

## **Required Courses — First Year**

**301. Human Physiology.** Physiology of muscle and nerve, blood, circulation, and respiration. Lectures, conferences, demonstrations, and laboratory. Nine and one-half hours each week; F.

- 302. Human Physiology.** Continuation of Physiology 301. Physiology of the gastrointestinal tract and liver, temperature regulation and endocrines, and radiation. Lectures, conferences, demonstrations, and laboratory. Nine and one-half hours each week; W.
- 303. Human Physiology.** Continuation of Physiology 302. Physiology of the kidney, body fluids, central nervous system, and senses. Lectures, conferences, demonstrations, and laboratory. Nine and one-half hours each week; Sp.

## **PREVENTIVE MEDICINE**

*Professors:* LEPPER (Head of Department).

*Associate Professors:* HULL (*Emeritus*), McCAHAN, OSTFELD, ROSENTHAL.

*Assistant Professors:* HAIR, LASHOFF, LEVITSKY, SPIES, STEINBERG, WOLTER, WOOD.

*Research Associate:* MACKLER.

*Instructors:* GOSS, STEBLAY.

*Research Assistants:* KESSNER, KRIAUCIUNAITE, NORSEN, PINTER.

The objectives of the Department of Preventive Medicine are to make the student aware of the importance of the hereditary and environmental factors in health and disease with special reference to the social and economic factors; to relate these factors to the problems of patients; to familiarize the student with the various community agencies which are helpful in the conservation of health and in the prevention and treatment of illnesses; and to coordinate the student's knowledge of the techniques which are now available for the physician's use in the prevention of disease.

The basic information in this field is covered in lectures and demonstrations in the second year. The lectures are based on the principles of epidemiologic methodology.

By studying patients, students in the senior year are given the opportunity to integrate their thinking about diseases in terms of the environment-host relationship. From this material the broad concepts of the natural history of disease in the individual and in population groups are developed. This knowledge is related to social and environmental factors in health and disease, including the attitudes of the public and members of the medical profession.

### **Required Courses — Second Year**

- 330. Preventive Medicine and Public Health.** Given in conjunction with the Department of Public Health. Same as Public Health 330. Lectures and demonstrations covering the principles of epidemiology and of the prevention of disease and the relation of the practicing physician to public health agencies. Two hours each week; Sp.

## Required Courses — Fourth Year

375. **Social Environment in Relation to Illness.** An inpatient clerkship for the entire class. Patients are studied on the medical and surgical wards and particular attention is paid to an enumeration of the environmental factors which may have been important conditioning or etiologic factors; family history and other evidence of host predisposition; and prior management as related to early diagnosis and natural history. Case review of this material leads to consideration of socio-economic, physical and biologic, environmental, genetic, immunological, and early diagnostic factors. Statistical consideration is given paramount attention as it pertains to expected course, prevention, and treatment. Prevention is considered at all levels, including health promotion and education, specific prevention, early diagnosis, disability limitation, and rehabilitation. In addition to the individual review of patients, a formal one and one-half hour conference is held each week by department members for the entire group of clerks. Four hours a week for twelve weeks; S, F, W, and Sp.

## Elective Courses

399. **Preventive Medicine and Public Health.** Given in conjunction with the Department of Public Health. Same as Public Health 399. Elective courses for the alternate quarter of a medical curriculum. Students may choose any of three programs which are available. All three have in common a twenty-four-hour course in principles of epidemiology and twenty-four hours of seminars on principles of preventive medicine. In one program the remainder of the time is spent in research with one of the study groups in the Departments of Preventive Medicine or Public Health. Research experience in infectious disease epidemiology, immunology, human behavior, and human genetics is offered. The second experience is a series of clerkships in infectious diseases in five hospitals coupled with study of the appropriate community agencies in this field. The third program is an organized study of various noninfectious diseases, industrial health, health plans, cancer detection, health promotion and education, including appropriate community agencies.

## PSYCHIATRY

*Professors:* SABSHIN (Head of Department), F. ALEXANDER (*Emeritus*), BAILEY (*Emeritus*), BOSSELMAN, CARMICHAEL (on leave of absence), A. GEIGER, GERTY (*Emeritus*), HAGGARD, HAMILL (*Emeritus*), JOSSELYN, MEDUNA, MOHR (*Emeritus*), SHAKOW (Lecturer), TOWER.

*Associate Professors:* ABOOD, GIOVACCHINI, GYARFAS, HAINES, HANDLER, HOFFMAN (*Emeritus*), KOKETSU, MILLER, MORRISON, NIELSON, POLLOCK, ROSENWALD, SHERMAN (*Emerita*), SHERWOOD, SHIMBEL (Lecturer), SOLOMON, WALTERS (Lecturer), WEINBERG.

*Assistant Professors:* J. ALEXANDER, ALTSCHUL, ARMSTRONG, BALIKOV, BEISER, BENEZRA, BENJAMIN, BERNSTEIN, BIEL (Lecturer), BOLIN, BUETTNER, CHAPLIK, CHEIFETZ, COOKE, T. DAVIS, EVANS, FLARSHHEIM, GINSBERG, GOODMAN, GREEN, H. GREENBERG, GROSS, GWYER, HALASZ, HALPERIN, HANNI, HARMAN, HARRIS, ISRAEL, JENSEN, KITT, KOENIG, KOFF, LAGE, LEVINE, LIEBMAN, LITNER, LOESCH, LONGINI, McMILLAN, McPHERSON, MINTEK, MOORE, MURRAY, NEMECEK, NUDELMAN, PASKIND (*Emeritus*), PERKINS, RHEAD, RINALDI, A. ROBERTSON, R. ROBERTSON, ROSENTHAL, RUDY, RUEHR, RUESS, SCHWARZ, SEGENREICH, SKLANSKY, SPURLOCK, STEED, STEWART, TARLOW, TIPPETT, TOLPIN, TOURLENTES, VICTOR, VISOTSKY, WEISDORF, WESTFALL, WRIGHT.

*Research Associates:* APTER, I. BARBATO, L. BARBATO, BRODY, COX, R. GEIGER, GOMBOS, ISAACS, MIYAMOTO, MUNRO, NODA, POLIDORA, ROSMAN, SCHAW, SHEKELLE, TANAKA.

*Instructors:* BARNETT, BOROWITZ, BRUNNGRABER, DeVRIJER, EISEN, ELSTEIN, GARRON, N. GREENBERG, HIRSCH, LIFSON, JACOBSON, NORTON, NYQUIST, PERCE, PESKIND, ROCAH, SABLE, SALIB, SAPORTA, SCHWARTZ, A. SMITH, G. SMITH, STEPLETON, SUSLICK, WASSERMAN, WATTS, WEINSTEIN, WIED, A. WOLOSHIN, YUFIT.

*Assistants:* BUSSELL, CASTILLO, DULAS, GARNER, HESS, KEMPTON, MIAN, PIEPER, TABIN, VAN PELT, WHITMAN, G. WOLOSHIN, ZALIS.

*Research Assistants:* CHORDIKIAN, O. DAVIS, KOYAMA, SCRUGGS, WHITNEY.

## **Required Courses — First Year**

### **310. Growth, Development, and Deviations of the Personality, I, II, and III.**

An orientation course presenting the correlation between psychologic, physiologic, sociologic, and psychiatric forces on the individual and his social environment. The first two quarters cover the dynamic aspects of the personality from birth through adolescence. Throughout, the emphasis is not only on the immediate period studied but also on its relationship to subsequent developments. Formal lectures and case demonstrations are used. Direct experience in observation is provided through individual case contacts on the pediatric service. The third quarter covers the period of young adulthood, middle age, senescence, and death. Reference to material studied previously is constantly made. Collaboration with the Department of Preventive Medicine is utilized and there is a special emphasis on dynamisms which are of importance in general or specialized medical practice. Fundamentals of psychiatric interviewing and history-taking are presented in orientation to the psychosomatic approach. Formal lectures, informal discussions, and case demonstrations are used. The opportunity is afforded to any student to follow a mother and child throughout the academic year on assignment to a prenatal and well-baby clinic. One hour each week; F, W, and Sp.

### **Required Courses — Second Year**

- 325. Introduction to Clinical Psychiatry: Psychopathologic and Therapeutic Approach.** The sophomore course in psychiatry is designed to present principles of psychopathology and therapeutic approaches utilized in psychiatry. It is also correlated more specifically with the other courses given in the sophomore medical curriculum, as well as with material that was presented in the freshman course in psychiatry. Wherever possible, clinical material is used to illustrate the above. An introduction to interviewing techniques is carried out. The first quarter is devoted to a study of the neuroses and allied conditions. The second quarter is concerned primarily with the psychotic disturbances. One hour each week; F and W.

### **Required Courses — Third Year**

- 351. Clinical Clerkship.** The chief instruction in the first year of the clinical years is given in this course. Principles of interviewing and doctor-patient interaction are taught, under supervision, by demonstration interviews and direct work with patients. Conferences are held demonstrating the group approach, including psychology and social work. Patients are assigned from the Neuropsychiatric Institute, the wards of the Research and Educational Hospitals, Cook County Mental Health Clinic, and the Illinois State Psychiatric Institute. One afternoon a week for twelve weeks while on the regular medical clerkship and a similar amount of time while on the pediatric clerkship; S, F, W, and Sp.

### **Required Courses — Fourth Year**

- 375. Clerkship.** Supervised experience in interviewing patients in the psychiatric outpatient department, with discussion of the doctor-patient relationship, the specific problems revealed by the patient, and the means of treatment. An attempt is made to create a practical understanding of psychotherapy; under the supervision of an attending man, the student is assigned a patient for psychotherapy. Supplementary discussion groups are held to consider psychiatric principles which are of value in the evaluation and treatment of all patients, using illustrative materials representing common problems seen in all branches of medical practice. In addition, during that part of the medical clerkship which the student spends on the general medical wards, psychological problems of the patient are considered as they relate to the total understanding and treatment of the patient. This is accomplished through integrated teaching on the medical wards where a psychiatrist is present as a member of the clinical team. Psychiatric outpatient work is at either the Neuropsychiatric Institute, half days for six weeks, or at the Presbyterian-St. Luke's Hospital, one half day for twelve weeks. Inpatient work on general medical wards is in coordination with the Department of Medicine either at the Research and Educational Hos-



pitals or at Presbyterian-St. Luke's Hospital throughout the medical clerkship. F, W, and Sp.

### **Elective Courses**

**377. Seminar in Psychosomatic Problems.** Discussion of principles and demonstration of cases. Open to physicians, residents, interns, and to senior medical students with consent of instructor. One and one-half hours each week; F, W, and Sp.

**399. Clinical Programs in Psychiatry.** The elective program in the Department of Psychiatry for senior medical students focuses on applying the insights of psychiatry, psychology, and sociology to the problems of the physically sick patient and his family. Several varieties of experience are available; both group and individual guidance is given to each student.

- a. The student is assigned patients for continuous study on various wards of the Research and Educational Hospitals. The orientation is primarily for the student who believes he is headed for general practice. Emphasis is placed on the understanding of the doctor-patient relationship, the use of drugs and placebos, socio-cultural problems, and the effect of an illness on family and community.
- b. Certain students may be permitted to continue their research in the Department of Psychiatry in addition to time ordinarily required.
- c. Students with special interests in psychological problems of children and adolescence are assigned families with whom to work and attend special seminars directed toward the evaluation and treatment of emotional problems of children. Such training is through affiliated child guidance centers. Additionally, patients may be obtained for study in this general area from the pediatric wards of the Research and Educational Hospitals.
- d. Some students may choose to have an extension of the regular clerkship in adult psychiatry. In this instance, in addition to the regular program, a student is encouraged to include a patient or patients whom he is able to follow in other clerkships in his senior year, but with the current emphasis on the psychological problems presented.
- e. A few students are permitted to spend assigned time to study the methods use in psychological testing as a part of any of the above courses.

Limited to ten seniors. Every morning Monday through Friday; S, F, W, and Sp.

### **Required Courses — Occupational Therapy Students**

**324. Psychiatry for Occupational Therapy Students.** A brief description of the major neuroses and psychoses is presented. Emphasis is upon understanding the development of the personality, the factors which contributed

toward the development of the illness, and the methods to be employed in the handling of specific problems presented by the patient in occupational therapy. Twenty-four hours of lectures; F.

## **PUBLIC HEALTH**

*Professors:* SHAUGHNESSY (Head of Department), BATSON.

*Associate Professor:* PISZCZEK.

*Assistant Professors:* ABRAMS, FATHERREE (Lecturer), KLASSEN, McDANIELS, MORSE (Lecturer).

*Research Associate:* DOVE.

Public health has been defined as "the science and the art of preventing disease, prolonging life, and promoting physical and mental health and efficiency through organized community efforts for the sanitation of the environment, the control of community infections, the education of the individual in principles of personal hygiene, the organization of medical and nursing service for the early diagnosis and preventive treatment of disease, and the development of social machinery which will ensure to every individual in the community a standard of living adequate for the maintenance of health."

The objectives of the Department of Public Health are to provide the student with information about the agencies through which community action for the prevention of disease and conservation of health are fostered; to show the ways in which these are related to the physician and how they may aid him in his practice; to point out the responsibilities of the physician to official public agencies; and to provide the student with the basic information which will permit him to assume his place in the community health program.

The student receives an introduction to public health in the basic courses given during the second year. He is given further opportunities to learn about community health in the third and fourth years through a teaching program which is integrated with those of some of the clinical departments.

A program of graduate work, including courses in biometrics, occupational health, and epidemiology is offered to medical students who are qualified. These courses are described in the Graduate College catalog.

### **Required Courses — Second Year**

- 326. Introductory Statistics.** An introduction to statistical terminology and concepts designed to aid medical students in understanding medical literature and in evaluating data. Twelve one-hour lectures; F.
- 330. Preventive Medicine and Public Health.** Given in conjunction with the Department of Preventive Medicine. Same as Preventive Medicine 330. Lectures and demonstrations covering the principles of the prevention of disease and the relation of the practicing physician to public health agencies. Two hours each week; Sp.

## Elective Courses

376. **Industrial Hygiene.** A discussion of the relation of the industrial environment to diseases of occupational and nonoccupational origin. Elective for senior students. One hour each week; W.
399. **Public Health and Preventive Medicine.** Given in conjunction with the Department of Preventive Medicine. Same as Preventive Medicine 399. Elective courses for the alternate quarter of a medical curriculum. Students may choose any of three programs which are available. All three have in common a twenty-four-hour course in principles of epidemiology and twenty-four hours of seminars on principles of preventive medicine. In one program the remainder of the time is spent in research with one of the study groups in the Departments of Preventive Medicine or Public Health. Research experience in infectious disease epidemiology, immunology, human behavior, and human genetics is offered. The second experience is a series of clerkships in infectious diseases in five hospitals coupled with study of the appropriate community agencies in this field. The third program is an organized study of various noninfectious diseases, industrial health, health plans, cancer detection, health promotion and education, including appropriate community agencies. S, F, W, and Sp.

## RADIOLOGY

*Professors:* HARVEY (Head of Department), SQUIRE, WACHOWSKI.

*Associate Professors:* BEILIN, BUENGER, CLARK, LEADER, LOCHMAN, MOOS, PETERSEN.

*Assistant Professors:* ALCORN, BAKER, BRAUN, HALKO, HENDRICKSON, HEYDEMANN, HILL, LIEBNER, MELAMED, OVADIA, PANTONE, PATTERSON, SANDBERG, SCHWARZ, STARKMAN, WHITNEY, WILSON.

*Research Associate:* YUSKEN.

*Instructors:* BOGDONOFF, CALENOFF, GREENFIELD, HAAS, HIBBS, HOUSER, HUSSEY, LEARY, A. R. MILLER, S. H. MILLER, RINGUS, ZAHEER.

*Assistants:* BAEHR, BERLIN, BORCHART, BUSH, FORDHAM, FRYE, HOCHHAUSER, MATTHEW, MCGINNIS, PRETTO, SAMET, WINCHELL.

The aim of the teaching program is to familiarize the student with X-ray methods of analysis as applied to anatomy, physiology, and pathology. Continual emphasis is placed on the ever-increasing scope of radiology, the indications for, and limitations of, various diagnostic and therapeutic procedures, the physical, biological, and genetic principles underlying radiation hazards, and means of preventing or minimizing dangers.

The teaching program is continuous throughout the four years of medical school. First-year students are provided with films for anatomical study and are encouraged to participate in patient fluoroscopic examinations to correlate

motion, function, and relationships with dissection material. During the second year, there is close correlation between X-ray and autopsy findings. In the clinical years, there is constant integration of X-ray with the various branches of medicine through case study, conferences, and rounds. Radiology is represented at most of the formal correlation conferences throughout the four years.

### **Required Courses — Second Year**

**349. Radiology.** This is a survey course covering diagnostic and therapeutic fields of radiology. Diagnosis is approached through general discussions of underlying physical and mechanical principles of different types of equipment, purpose of different types of examinations, patient preparation, patient tolerance, and limitations of various examinations. Emphasis is placed upon normal ranges, significant variations, and abnormal findings. The therapeutic portion includes actions and uses of radium, roentgen rays, and radioactive isotopes. Biological effects of radiations, public health aspects of atomic medicine and warfare, and selected items of criminal detection and legal identity and responsibility are included. Lectures and demonstrations one hour each week; Sp.

### **Required Courses — Third Year**

**374. Dispensary Radiology.** Logic and technic of X-ray interpretation are taught in small groups. Correlation of patients' symptoms and X-ray findings is made by clinical rounds. Detection and management of cancer is taught by demonstration and discussion in tumor clinics, wards, operating rooms, and radiation therapy section. F, W, and Sp.

### **Elective Courses**

**399. Elective Clerkship in Radiology.** A two-week full-time assignment in the radiology department at either the Research and Educational Hospitals or Presbyterian-St. Luke's Hospital. Clerks are part of the radiological team in the daily management of diagnostic, therapeutic, and isotopic patient load, attend all conferences participated in by the radiologists, study a selected group of teaching file cases, and are given helpful reading assignments in fundamental radiologic problems. S, F, W, and Sp.

## **SURGERY**

### **GENERAL SURGERY**

*Professors:* COLE (Head of Department), A. O. ANDERSON, H. L. BAKER (*Emeritus*), BEATTIE, DAVID (*Emeritus*), DE TAKATS, FELL, GILCHRIST, GREELEY, JENKINS (Lecturer), JULIAN, McARTHUR (*Emeritus*), MILLER (*Emeritus*), NADEAU (*Emeritus*), OLECH, PUESTOW, REYNOLDS, SLAUGHTER, STRAUS, VAN HAZEL.

*Associate Professors:* BARBER, DAVIS, DE PEYSTER, DIFFENBAUGH, DIGGS, DYE, EVERSON, GARSIDE, GROVE, GUY, HAZLETT (*Emeritus*), JAVID, JENSIK, JIRKA (*Emeritus*), KILBOURNE, KOUCKY, LANGSTON, LASKIN, LAWTON, LYON (*Emeritus*), G. O. McDONALD, McMILLAN, MONROE, ODEN (*Emeritus*), OLWIN, PARKER, REQUARTH, ROBINSON, SCHNEEWIND, L. W. SCHULTZ, SEED, SOUTHWICK, STROHL, THEIS, THIOREK.

*Assistant Professors:* ALMQUIST, R. E. ANDERSON, ATTERBURY, BLACK, BRANCH, BROWN, CANHAM, CANNON, CROSS, CURTIN, EASTMAN, ECONOMOU, FOWLER, GIBBEL, GREEN, HALEY, HANSELMAN, HARDT, HARRIDGE, HESS, IRENEUS, KAISER, KOPPEL, LOPEZ-BELIO, MAJARAKIS, MATSON, H. I. MEYER, MRAZEK, OLANDER, ORNDORFF, L. W. PETERSON, PRIBBLE, RIKER, ROTH, SHAMBAUGH, SHOREY, STOKES, STUEBNER, WASICK, WEINBERG, WERELIUS, WITKOWSKI.

*Instructors:* R. J. BAKER, BARKER, BLANDY, BRENNAN, BURHANI, CAGLE, CHEEMA, CORRELL, DOUGLAS, FABER, FISCUS, FRISCH, GABEL, GORDON, GUYNN, HAMLIN, HUNTER, HUTCHINGS, IKNAYAN, JAMIESON, JENSEN, F. R. JOHNSON, O. K. JOHNSON, KIRSTEINS, KNOCK, LATHAM, LENIT, LOOBY, LORENTSON, McANDREW, McNALLY, MANSOUR, MARSHALL, MARTINI, R. H. MEYER, MILLOY, MOCK, MUENSTER, NAJAFI, NYI, OTTEN, OVERSTREET, PARROTT, PASTNACK, E. G. PAUL, H. A. PAUL, PEPPER, POWERS, PROFFITT, RASMUSSEN, REISER, RENAUD, RENDLEMAN, SANKOVITCH, R. C. SCHULTZ, SELLETT, SOLANDER, STANSEL, STAUB, STREHL, TAKAYAMA, TARIZZO, WHITE, WILLIAMSON, WITANOWSKI.

*Assistants:* B. R. BANCROFT, J. H. BANCROFT, BUCKNER, BUINAUSKAS, DAINKO, ELLENBY, FAGARASON, GLASSFORD, HINKAMP, HUMPHREY, F. E. JOHNSON, JONASSON, KENWELL, LAWRENCE, LONG, McKENZIE, MASON, RAGHEB, ROBERTS, ROMSDAHL, SCHMIDTKE, SOMERNDIKE, VANDER VENNET, WEBB, WHISLER.

The major functions in undergraduate teaching of surgery are to teach surgical diagnosis, preoperative and postoperative care, and the principles of operative technic. Several additional years of intern and residency experience are required to obtain sufficient training in operative technic and judgment to qualify as a surgeon.

In the sophomore year the student receives an introduction to surgery through conferences and lectures given partly as interdepartmental conferences by members of the surgical department and partly as an independent lecture series.

In the junior year the student begins clerkship work on the ward where he takes the patient's history, performs examinations, and scrubs with the surgical team in the operating room when his patients come to surgery. In the preoperative preparation of the patient and particularly in the postoperative care, the student comes in direct contact with the clinical application of physiology, biochemistry, and the other basic sciences, because in this phase of surgery the correlation with other specialties is very close. Numerous clinics



are held during this clerkship period when problems in various surgical specialties as well as in general surgery are discussed.

In the senior year the student continues with a ward clerkship, but in addition is assigned work in the various surgical dispensaries. Likewise, various surgical clinics are held where the patient is used as a basis for presentation and discussion of surgical problems.

### **Required Courses — Second Year**

326. **Introduction to Surgery.** This is an introductory course in surgery designed to present basic information needed by the student to assist him in correlation of the clinical features of surgical patients. Three hours each week for twelve weeks; Sp.

### **Required Courses — Third Year**

350. **Surgical Clinic.** Research and Educational Hospitals. One hour each week for twelve weeks; F, W, and Sp.
351. **Surgical Pathology.** Research and Educational Hospitals. One hour each week for twelve weeks; W.
353. **Surgical Clerkship.** Students are assigned patients and are responsible for the history and laboratory work. General (also emergency), thoracic, oral, pediatric, plastic, and vascular surgery are included. Research and Educational Hospitals, Presbyterian-St. Luke's Hospital, Cook County Hospital, and West Side Veterans Administration Hospital. Thirty-eight hours each week for twelve weeks; F, W, and Sp.
354. **Tumor Clinic.** One hour each week for twelve weeks; F, W, and Sp.

### **Required Courses — Fourth Year**

375. **Surgery Dispensary and Tumor Clinic.** History-taking, diagnosis, minor surgery, and surgical dressings. Research and Educational Hospitals. Two two-hour periods each day for two weeks, assigned six evenings to Emergency Room; F, W, and Sp.
376. **Clerkship.** Presbyterian-St. Luke's Hospital (twelve weeks) or at Research and Educational Hospitals (with six weeks in the dispensary and six weeks on the orthopaedic ward); all day except Wednesday morning and afternoon and Saturday morning.

### **Elective Courses**

399. **Alternative Programs in General Surgery and Surgical Specialties.** These programs are offered in order to permit small groups of senior students during the alternative quarter to study in depth certain surgical specialties or to enter into research within the Department of Surgery. These courses are offered as full-time clerkships at either Research and Edu-

cational Hospitals or Presbyterian-St. Luke's Hospital or other hospitals associated with the University teaching program. The clerkships are not a repetition of the regular senior clerkship. Rather, the student spends all his time in the area of the particular specialty under the guidance of one faculty member. A student wishing to engage in research may carry out a problem of his own choice or participate in a faculty member's research program. The following clerkships and research experiences are offered: (a) research in surgery at the Research and Educational Hospitals (tumor, general surgery, tissue culture, cardiovascular surgery, and anesthesia) and at Presbyterian-St. Luke's Hospital (tumor, blood coagulation, cardiovascular surgery, and tissue transplantation); (b) specialty clerkships (tumor clinic, urology, emergency service, anesthesia, recovery room). Total enrollment limited to twenty-six students with no more than two or three students in any one area of research or specialty clerkship; continuous through one quarter.

### **Required Courses — Occupational Therapy Students**

**324. Surgical Conditions.** Physical conditions which are treated through surgery, including definitions, causes, symptoms, prognosis, and possible complications. Surgical treatment in relation to the value of occupational therapy in preoperative and postoperative treatment, with consideration for the patient's total rehabilitation. F and Sp.

### **UROLOGY**

*Professors:* N. J. HECKEL, KIEFER.

*Associate Professors:* BUCKMAN (*Emeritus*), GRAUER, J. H. McDONALD, MERRICKS.

*Assistant Professors:* BAUMRUCKER, DRABANSKI, GRAF, W. C. MEYER, PAPIERNIAK, RITCH, SCHACHT.

*Clinical Associate:* HAEGER.

*Instructors:* BERRY, CALAMS, CALLAHAN, COTTRELL, FIRFER, McKIEL, SOZER, VALENTA.

*Assistants:* FLANAGAN, GONZALEZ.

### **Required Courses — Third Year**

**353. Clerkship.** Given in conjunction with Surgery 353. Students are assigned patients and are responsible for the history and laboratory work. They also attend ward rounds. Research and Educational Hospitals and Presbyterian-St. Luke's Hospital. F, W, and Sp.

**361. Clinical Urologic Seminar.** The more important urologic conditions are covered in detail by discussion and demonstration of patients. One hour each week for twelve weeks; F, W, and Sp.

### **Required Courses — Fourth Year**

375. **Urology Dispensary.** History-taking, examinations, and treatment. Research and Educational Hospitals. Four two-hour periods each week for two weeks; F, W, and Sp.

### **ANESTHESIOLOGY**

*Professors:* SADOVE (Head of Division), MORCH, SEARLES.

*Associate Professors:* BALAGOT, LYONS (*Emerita*).

*Assistant Professors:* CAWLEY, LEVIN, NATOF, REMLINGER, ROSENBERG, SCHIFFRIN, SCHMIDT, SEN, SHIMA, STAFFORD, YON.

*Clinical Associates:* KEELING, SEYMOUR.

*Instructors:* DE PADUA, GLEAVE, E. H. HECKEL, KATZ, D. G. NELSON, J. T. NELSON, ONODA, PAPRIKOFF, ROSE, SCHWARTZ, TENNANT, VALENTI, VITRUNGS.

*Assistants:* ALFONSO, ALLISON, ARJMAND, ASHCRAFT, BATES, DANGREMOND, KEZDI, KRANZ, LARSON, MACLEAN, MAHER, MATTOS, MELBY, R. J. NELSON, PEREZ, A. W. PETERSON, SANDROLINI, SANTANDER, SANTELICES, SHULMAN, SILINS, STRAUB, WALLACE.

*Research Assistant:* TSUJI.

### **Required Courses — Third Year**

362. **Principles of Anesthesia.** One hour each week for twelve weeks; W.

### **Required Courses — Fourth Year**

376. **Clerkship.** Given as part of Surgery 376. The student is assigned to anesthesia full time for two weeks. Under supervision he gives the anesthetic to patients in the operating room. F, W, and Sp.

## **OFFICE OF RESEARCH IN MEDICAL EDUCATION**

*Director:* MILLER.

*Associate Director:* FISHER.

The College of Medicine organized during the past biennium an Office of Research in Medical Education to lend direction to a carefully designed and all-inclusive study of its educational program. Although the program of study is still in an early phase, some curricular modifications have been made and additional changes are clearly in sight and may be implemented within the biennium covered by this catalog.



## MEDICAL ILLUSTRATION

*Professors:* GOODWIN (Head of Department), JONES (*Emeritus*).

*Assistant Professors:* HOSPODAR, LINDEN.

*Instructor:* MORGAN.

The Department of Medical Illustration is organized as a department of the Chicago Professional Colleges and has working relations with the Colleges of Dentistry, Pharmacy, Medicine, and Nursing.

The department conducts service functions related to illustration, photography, and use of visual aids. In addition, it conducts an educational program as outlined in the specific course mentioned.

### Special Course for Non-Medical Students

**100. Medical Illustration.** A course of twenty-two months in illustration as applied to the broad field of medical education, with students working in the Illustration Studios with the staff artists and the Department of Anatomy, is offered to candidates presenting evidence of thorough training in art and a sound scholastic record, including a bachelor's degree. The first year of study includes: (1) a course in anatomy taken with medical students consisting of lectures and laboratory work in embryology, histology, neurology, and gross anatomy, including the dissection of an entire human body; (2) drawing in detail of dissections, bones, and organs of the body prepared in conjunction with anatomy studies; (3) special consideration of accurate observation and interpretation of technics and media of illustration such as wash drawing, crayon, pen and ink, and water colors; (4) lettering and the preparation of charts and graphs as applied to medical subjects. The second year includes practical applications of illustration in the widest sense to publishing and medical education. Emphasis is placed on the theories of visual instruction and the growing responsibility of the illustrator for the improvement of medical education through all types of graphic media by means of: (1) illustrative projects in anatomy, surgery, and pathology, working from autopsy, operating room, and dissection material; (2) opportunity to participate in the planning, design, and preparation of lay and scientific exhibit material; (3) adaptation of various materials to three-dimensional representation of scientific subjects. Technics for working clays, waxes, plaster, plastics, moulages, wood, and metals are among those studied. Except in unusual cases, application for admission to the course must be made in person to the head of the department. The number of students which may be accepted in any one year is limited to four. The first half-year is a probation period for all students. Hours: 9:00 a.m. to 5:00 p.m. Monday through Friday and 9:00 a.m. to 12:00 noon Saturday. Fee for each quarter: residents, \$75.50; nonresidents, \$198.50.



## **MEDICAL SOCIAL WORK**

*Associate Professor:* PREUCIL (Head of Department).

*Assistant Professors:* BINNS, FASSLER, FRASER, HEPLER, LARGE, LOCKHART, MERRIFIELD, SELTZER, TAYLOR, WAITE.

*Instructors:* CALLAGHAN, DERRICOTE, ENGANELA, EXUM, GILSON, GOSS, HELMS, JOHNSON, LANE, PLISKE, PROSSER, READ, ROBERTSON, SERIKAKU, TEASON, WEINSTEIN.

*Assistant:* MEYERTHOLEN.

The major objective of the Department of Medical Social Work is to help students to observe and to understand the variety of meanings which illness may have for patients and their families; to recognize the pertinence of family relationships and of other social factors in the appraisal of the medical problem and in the determination and success of treatment; to evaluate the significance of such factors in specific situations; and to learn what types of community facilities for rehabilitation are available. In order to help the student to develop skill in carrying out these functions, the department also teaches the methodology for: interviewing; exploration of sources of social information other than the patient; evaluation of observations of patients and others; and use of community resources to the best advantage of the patient. For medical students in the clinical clerkships, this material is integrated into the courses in the various departments of medicine by lectures, seminars, rounds, group discussions, and conferences with one or two or with a small group of students. All teaching is related to patients who are under care in the hospitals or clinics, many of whom are being served by the department.

Students of nursing and occupational therapy are given similar material in didactic lectures and in small group discussions regarding individual patients.

Each year, approximately twenty graduate students of social work from the University of Illinois and the University of Chicago receive their clinical instruction in the department.

## **OCCUPATIONAL THERAPY**

*Associate Professor:* WADE (Head of Department).

*Assistant Professor:* HEERMANS.

*Instructors:* FOULKS, GILLETTE, HRUBY, LOOMIS, OMORI, PERLMUTTER, SABINE, SCHAD, TIERNAN.

*Assistants:* BUSER, GILSON, KELSEY, SCHMALZ.

The Department of Occupational Therapy offers a course of study which leads to the Degree of Bachelor of Science in Occupational Therapy. The professional curriculum meets the requirements set forth by the American Occupational Therapy Association and by the Council on Medical Education and

Hospitals of the American Medical Association. The curriculum prepares its registrants to function in the following areas: medicine, neurology, orthopaedics, pediatrics, physical medicine, psychiatry, and surgery. Members of the faculty of the above medical specialties, as well as those of pathology and microbiology provide instruction which orients the occupational therapy student in these fields and affords fundamental information essential to effective function. The close correlation between didactic instruction and practice in planning and administering treatment is effected through supervised clinical experience obtained in the occupational therapy treatment units of the Research and Educational Hospitals and affiliating institutions.

Occupational therapy is the use of directed activities as treatment. The therapist, working under the direction of a physician, contributes to the patient's physical and mental recovery or adjustment to chronic disability. This treatment assists the patient in his social adjustment and emotional development, as well as his physical restoration. Through the use of creative manual activities such as arts, crafts, recreation, music, and drama, the occupational therapist plans activities to meet the individual needs of the patient.

### **Plan of Instruction**

The course is equivalent to five academic years. A portion of the instruction is offered by the College of Liberal Arts and Sciences (six semesters) on the Urbana campus; the last phase of instruction is given in a period of sixteen months by the College of Medicine in Chicago.

For information regarding the requirements for admission and detailed description of this course of study, a copy of the Occupational Therapy bulletin may be procured through the Office of Admissions and Records, University of Illinois, Urbana. Inquirers may also write directly to the College of Medicine, 1853 West Polk Street, Chicago 12, Illinois.



## POSTGRADUATE DIVISION

The Postgraduate Division is organized as a branch of the Office of the Dean of the College of Medicine. The faculty consists of the faculty of the College of Medicine. The policy is to offer special departmental courses as well as general courses. Registration is limited, and applicants must be properly qualified. From time to time announcements are made of courses, giving details of registration, numbers accepted, tuition fees, and similar information.

### Ophthalmology

**330. Postgraduate Course in Ophthalmology.** A full-time course designed for those graduates who have completed their internships and wish to specialize in ophthalmology. This is preparatory for a residency in ophthalmology. It consists of the following major aspects, integrated vertically according to the ocular structure as far as possible: (1) basic sciences related to ophthalmology; (2) instruction in the use of ophthalmic instruments and didactic introduction to clinical ophthalmology; and (3) demonstrations of clinical pathology. There are approximately thirty hours of organized instruction each week, including lectures, dissection of the orbit, laboratory work in histology, pathology, microbiology, and geometric optics, demonstrations, seminars, supervised instruction in refraction and animal surgery. The facilities of both the University of Illinois College of Medicine and the Illinois Eye and Ear Infirmary are utilized. Six months; S and F. Fee: \$500. (Not given in 1961-62.)

### Otolaryngology

The following courses may be registered for individually or in groups, the time being arranged with the instructor. Additional hours may be scheduled with consent of the head of the department. Applicants must be graduates of a class A medical school and present acceptable credentials.

**340. Postgraduate Basic Curriculum.** Provides a full-time basic curriculum of instruction for those intending to prepare for special practice. Nine months of the academic year with an addition of a three-month period of clinical work. 9:00 a.m. to 5:00 p.m. Fee: \$150 tuition and \$100 laboratory each quarter.

**341. Principles of Otolaryngology.** Lectures, demonstrations, cadaver dissection, surgical anatomy, animal and cadaver surgery, physiology, laboratory and photographic technic, histology and pathology, and seminar. Duration: Three months. Fee: \$150.

- 342. Bronchoesophagology.** Consists of lectures, animal and cadaver work, and actual observation in the bronchoscopic operating room and outpatient clinics. Includes indirect and direct laryngoscopy, bronchoscopy, and esophagoscopy. May also be scheduled separately by accredited specialists. Didactic and laboratory. Duration: Two weeks. Fee: \$210.
- 344. Refresher Courses.** Brief review courses of one or two weeks in length covering the more important subjects of the specialty. Largely didactic, they bring to specialists current advances in management, therapy, and philosophies. Held several times during the academic year as determined by need. Fee: \$75 a week plus laboratory fee.





FACULTY OF  
THE COLLEGE OF MEDICINE

## FACULTY OF THE COLLEGE OF MEDICINE

The following appointments were effective September 1, 1960.

ABOOD, LEO G., Ph.D., Associate Professor of Neurophysiology, in the Departments of Psychiatry and Biological Chemistry

ABRAMS, HERBERT K., M.P.H., M.D., Clinical Assistant Professor of Public Health

ABRAMSON, DAVID I., M.D., Professor of Physical Medicine and Rehabilitation, Head of the Department, and Professor of Medicine

ADEN, MARVILEE, A.B., M.D., Research Assistant in Medicine

ADLER, WILLIAM M., B.S., M.D., Assistant in Ophthalmology

AFREMOW, MELVIN L., M.S., M.D., Clinical Associate Professor of Medicine

AGUSTSSON, MAGNUS H., M.D., Clinical Assistant Professor of Pediatrics

AHSTROM, JAMES P., B.S., M.D., Clinical Instructor in Orthopaedic Surgery

AIMONE, JOHN A., B.S., M.D., Clinical Assistant in Obstetrics and Gynecology

AKRE, OSMUND H., A.B., M.D., Clinical Assistant Professor of Medicine

ALBALA, MAURICE M., B.S., M.D., Clinical Instructor in Medicine

ALCORN, FRANKLIN S., A.B., M.D., Assistant Professor of Radiology

ALEXANDER, FRANZ G., A.B., M.D., Clinical Professor of Psychiatry, *Emeritus*

ALEXANDER, JAMES M., M.D., Clinical Assistant Professor of Psychiatry

ALEXANDER, ROBERT W., B.S., M.D., Instructor in Pathology

ALFONSO, JOSE R., M.D., Assistant in Anesthesiology

ALLEN, EDWARD D., B.S., M.D., Clinical Professor of Obstetrics and Gynecology (Rush)

ALLEN, ROBERT L., B.S., M.D., Clinical Assistant Professor of Ophthalmology

ALLISON, OLAF W., B.S., M.D., Assistant in Anesthesiology

ALMQUIST, CARL O., B.S., M.D., Clinical Assistant Professor of Surgery

ALPERT, NORMAN R., Ph.D., Associate Professor of Physiology

ALTSCHUL, SOL, M.S., M.D., Clinical Assistant Professor of Psychiatry

ALVAREZ, WALTER C., M.D., Lecturer in Medicine with rank of Professor, *Emeritus*

AMTMAN, LEO E., B.S., M.D., Clinical Assistant Professor of Medicine, *Emeritus*

ANAST, BASIL P., M.D., Assistant Professor of Parasitology, in the Department of Medicine

ANDERSON, AXEL G., D.D.S., Clinical Professor of Surgery

ANDERSON, C. CLYDE, A.B., M.D., Instructor in Medicine

ANDERSON, EARL T., B.S., M.D., Assistant in Medicine

ANDERSON, RAYMOND E., M.S., M.D., Clinical Assistant Professor of Surgery

ANDERSON, TRUMAN O., Ph.D., M.D., Research Associate in Medicine (on leave of absence)

ANDRESEN, RICHARD H., B.S., M.D., Clinical Assistant Professor of Obstetrics and Gynecology  
 ANDREWS, ALBERT H., JR., M.S., M.D., Clinical Associate Professor of Bronchoesophagology in the Department of Otolaryngology  
 ANDREWS, WILLIAM J., B.S., M.D., Clinical Instructor in Medicine  
 ANGELL, JOSEPH S., M.D., Clinical Instructor in Obstetrics and Gynecology  
 APFELBACH, HENRY W., M.D., Clinical Assistant Professor of Orthopaedic Surgery  
 APPELBAUM, BRADLEY E., B.S., M.D., Assistant in Pediatrics  
 APPLE, CARL, B.S., M.D., Clinical Associate Professor of Ophthalmology  
 APTER, JULIA T., M.S., M.D., Research Associate in Psychiatry  
 ARCILLA, RENE A., A.A., M.D., Clinical Assistant Professor of Pediatrics  
 ARJMAND, TOWFIG M., B.S., M.D., Assistant in Anesthesiology  
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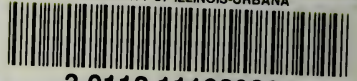








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